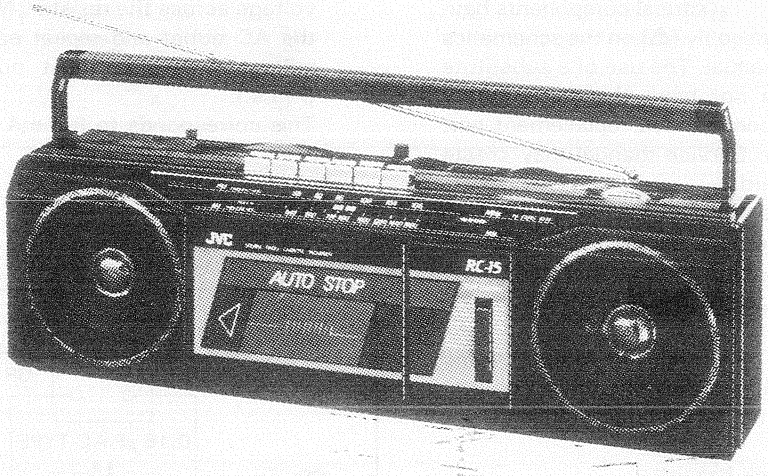
JVC

SERVICE MANUAL

STEREO RADIO CASSETTE RECORDER

RC-15 E/G/U/UZ/V



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No. 1715
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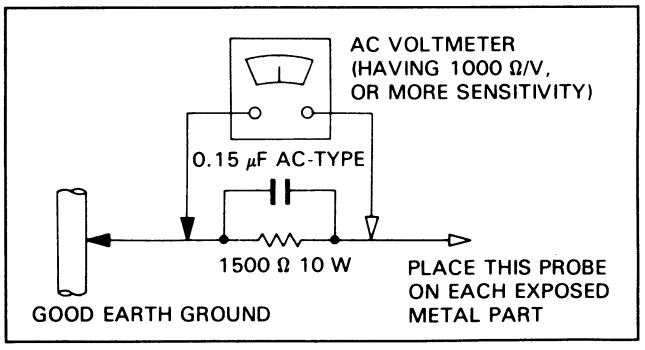
Safety Precautions

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (⚠) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.)
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).



Specifications

Speakers : 9 cm (3-9/16″) full range (8 Ω) × 2

Tuner section

Frequency ranges

RC-15 U/UZ
: FM 88—108 MHz
AM 540—1600 kHz
SW1 2.3—7 MHz
SW2 7—22 MHz

RC-15E/G/V
: FM 88—108 MHz
MW 540—1600 kHz
SW 6—18 MHz
LW 150—350 kHz

Antennas

RC-15U/UZ
: Telescopic antenna for FM & SW2
Ferrite core antenna for AM & SW1

RC-15 E/G/V
: Telescopic antenna for FM & SW
Ferrite core antenna for MW & LW

Tape recorder section

Track system : 4-Track 2-channel stereo
Wow & flutter : 0.22% (WRMS)
Fast forward/Rewind time : Approx. 155 sec. (C-60 cassette)

Amplifier section

Power output : 1.0 W per channel at 10% THD
Max. 2.4 W (1.2 W + 1.2 W) at 8 Ω
Output jack : Headphone × 1 (30 mW/32 Ω, 8—32 Ω)
Input/output jack (RC-15 G only) : DIN jack
Min. input level 0.2 mV/kΩ (4.7 kΩ)
Output level 300 mV, −8 dBs (8 kΩ)
Power supply : DC 9 V (6 "R20" batteries)
AC 220-240 V/110-127 V, 50/60 Hz (RC-15 U/UZ)
AC 220 V, 50/60 Hz (RC-15 E/G/V)
Ext. DC 9 V
Power consumption : 12 W
Dimensions : 430(W) × 135(H) × 114(D) mm (16-15/16″ × 5-3/8″ × 4-1/2″)
Weight : Approx. 2.2 kg (4.9 lbs) (without batteries)

Design and specifications are subject to change without notice.

Location of Main Parts

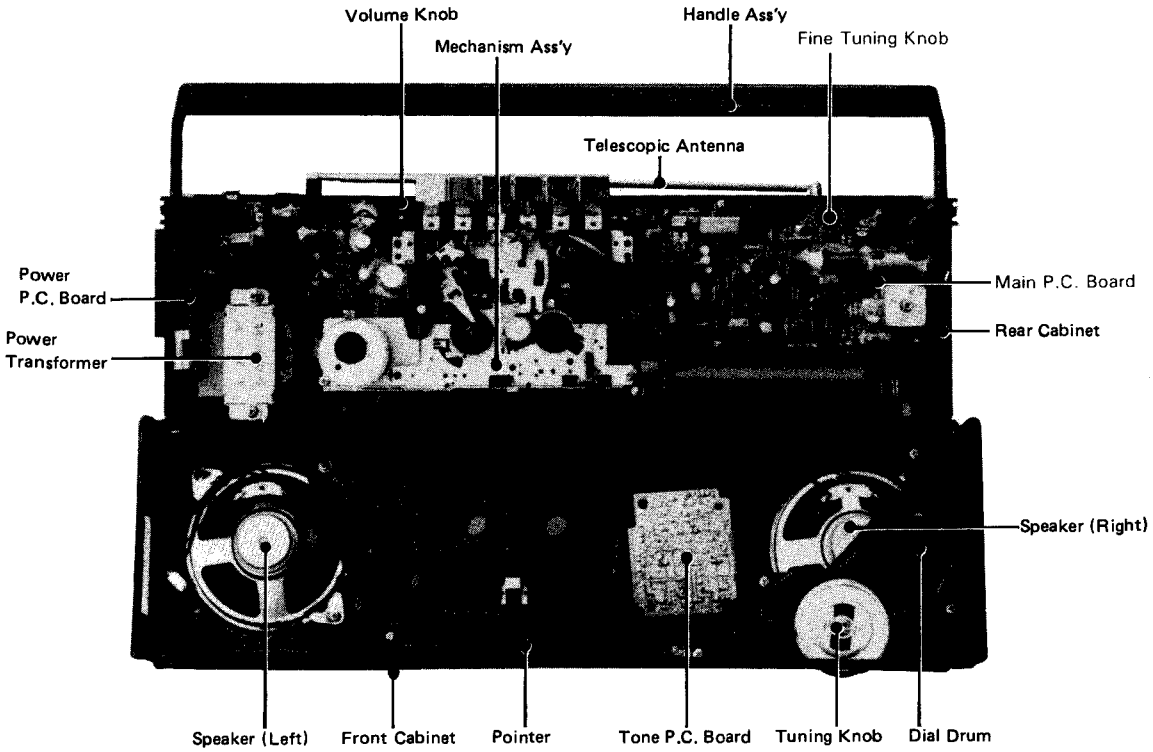


Fig. 1.

Names of Controls

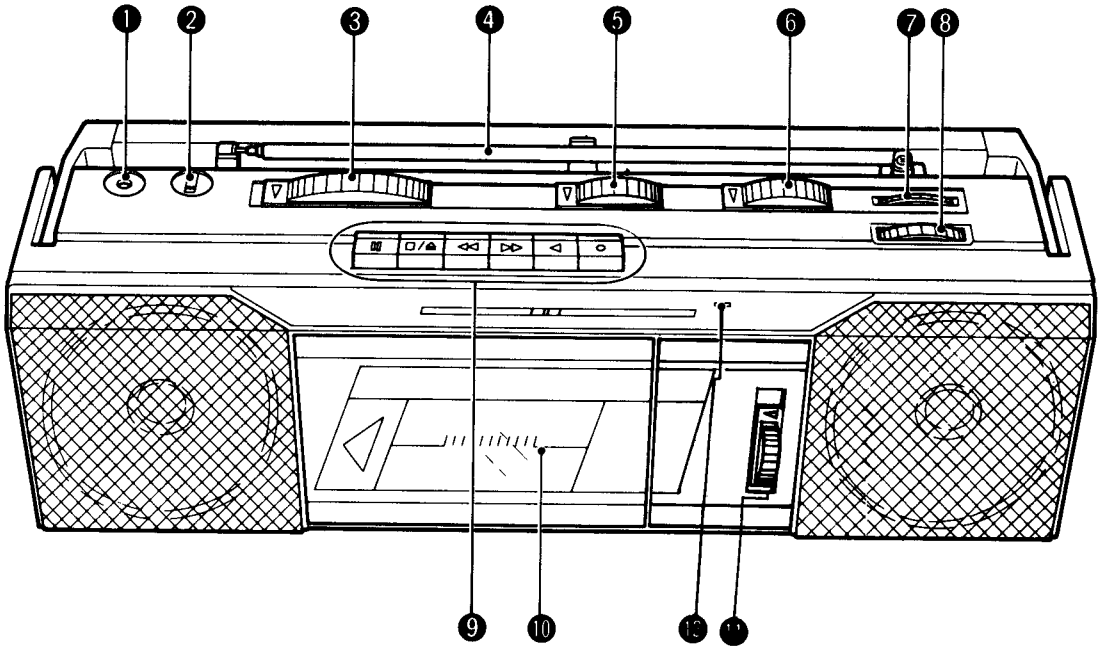


Fig. 2–1.

❶ Phones jack
❷ Built-In Mic (monaural)
❸ Volume control
❹ Telescopic antenna
❺ Function switch
❻ Band switch
❼ Fine tuning knob
❽ Tuning knob
❾ Cassette operation buttons
  ❚❚ PAUSE button
  ■ /⏏ STOP/EJECT button
  ◀◀ FF button
  ▶▶ REW button
  ◀ PLAY button
  ○ REC button
❿ Cassette holder
⓫ Tone control
⓬ FM stereo indicator
⓭ AC input jack
⓮ Voltage selector switch (RC-15 U/UZ Version)
⓯ DC IN 9 V jack (⊖-◉-⊕)
⓰ DIN jack (RC-15 G/V Version)

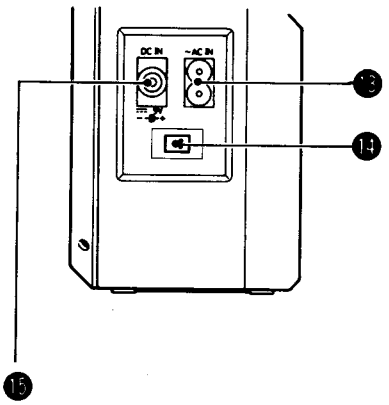


Fig. 2-2

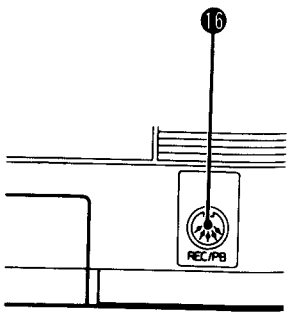


Fig. 2-3

Removal Procedure of Main Parts

■ **Front Cabinet (Fig. 3, 5)**
1. Remove the battery cover.
2. Remove six screws (1) retaining the cabinet.
3. Remove three knobs A & B (Volume, Band, Function).
4. Remove the bottom of the cabinet.
5. Remove the speaker/ST indicator wire connectors.
6. Remove the tone control Ass'y from the front of the cabinet.
   a) Remove the tone control knobs.
   b) Remove three screws (2) retaining the tone control board Ass'y.

■ **Mechanism Ass'y (Fig. 4)**
1. Remove four screws (3) retaining the mechanism Ass'y.

■ **Power Transformer/Power Supply Board Ass'y (Fig. 6)**
1. Remove two screws (5) retaining the power transformer.
2. Pull the power transformer/Power supply board Ass'y cut of the cabinet.

■ **Headphone Jack Ass'y (Fig. 6)**
Remove two screws (6) retaining the jack board.

■ **Dial Chassis (Fig. 5)**
Remove three screws (7) retaining the chassis Ass'y.

■ **Speaker (Fig. 5)**
Remove two screws (8) retaining the speaker.
(Perform the same operation for the right and left speakers.)

■ **Cassette Door (Fig. 5)**
1. Remove one screws (9) retaining the door damper.
2. Open the cassette door by approx. 20mm from the cabinet and forcibly pull the door upward to remove it. At this time, the spring is disengaged.

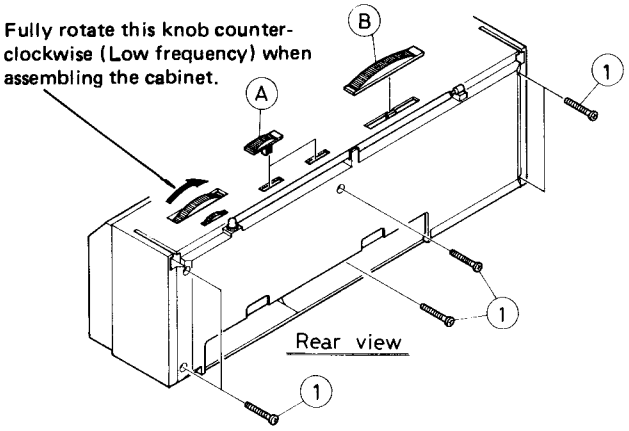


Fig. 3.

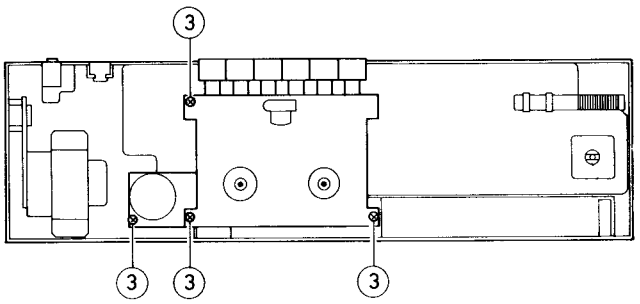


Fig. 4.

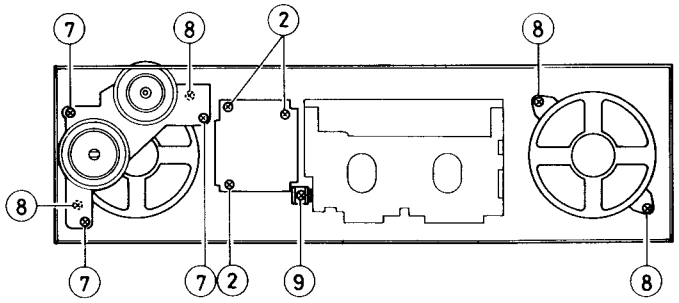


Fig. 5.

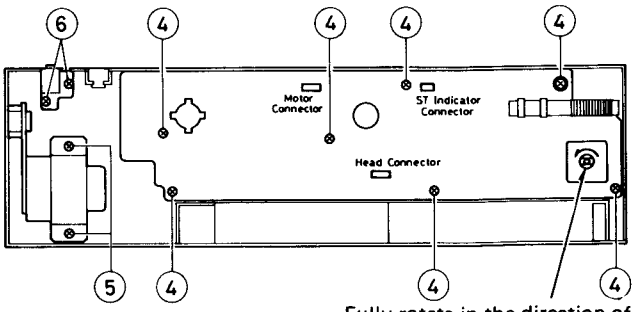


Fig. 6. Fully rotate in the direction of arrow when assembling.

■ **Assembling**

1. Insert the door spring into the cabinet.
2. Insert the door so that it is parallel with the cabinet.
3. Attach the door hinge into the cabinet (lower hook) and press the door down.
4. Adjust the door spring so that it is not disengaged when the cassette holder opens and closes.

Rear View (Fig. 3, 6)

1. Fully rotate Vari. Con in the direction of arrow when assembling.
2. Fully rotate the tuning knob counterclockwise (low frequency)when assembling the cabinet.

Insertion of Spring with the cabinet (Fig. 7)

a. Insert the spring into the cabinet as illustrated.

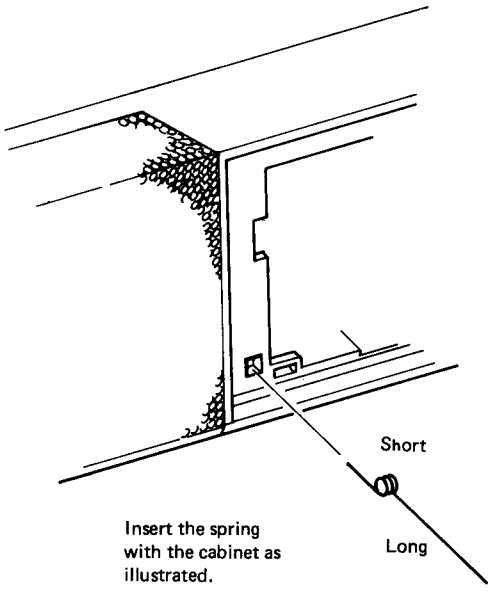


Fig. 7.

Setting of Door Spring (Fig. 8)

Put the spring inside the door when installing the door so that it is parallel with the cabinet.

Hinge attachment (Fig. 9)

Head Wire Handling (Fig. 10)

When assembling cabinet take care of following caution.

1. Must be no touch REC spring by head wires.
2. As assembling mechanism route the wire as illustrated.

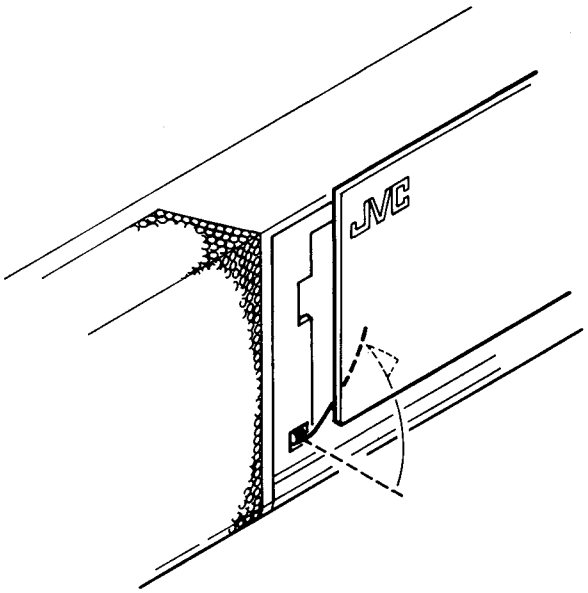


Fig. 8.

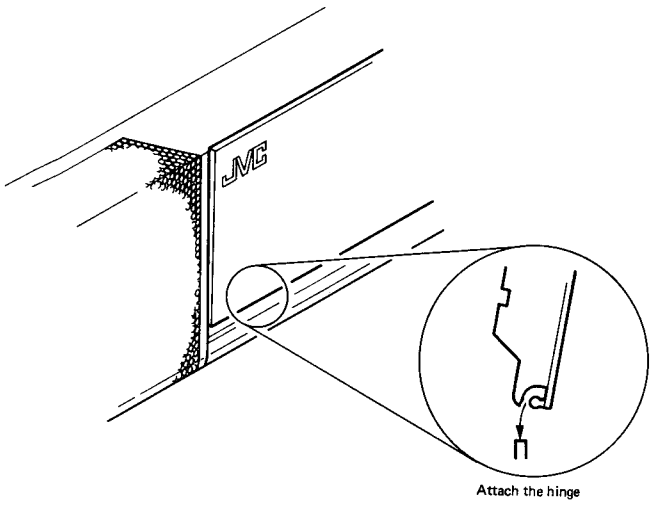


Fig. 9.

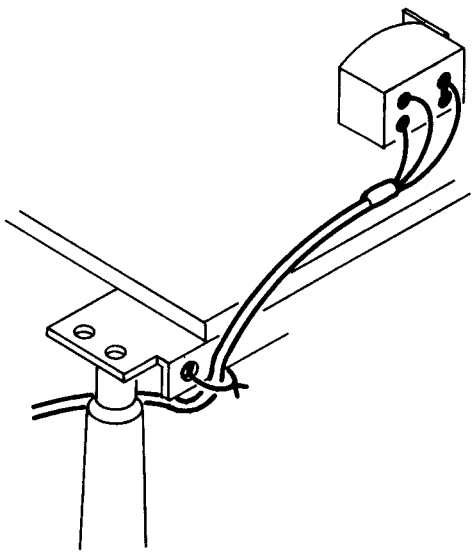


Fig. 10.

Mechanism Section

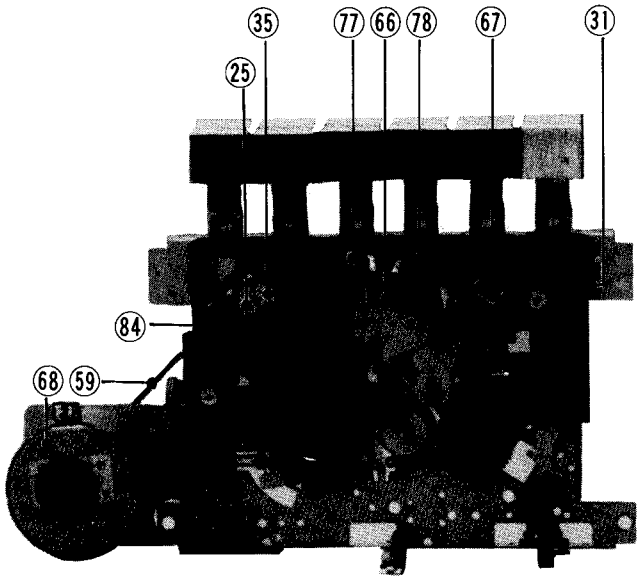


Fig. 11.

■ **R/P head** (66)
1. Unsolder the wire connected to the head.
2. Remove the two screws (77) and (78) (When reassembling, refer to "Adjustments for mechanism" on page 9.)

■ **Erase head** (67)
1. Disengage the pawls of the magnet arm (31) by expanding to remove the erase head.

■ **Pinch roller arm ass'y** (35)
1. Remove the screw (25) to remove the pinch roller arm ass'y.

■ **Motor ass'y** (68)
1. Unsolder the wires connected to the motor.
2. Disengage the main belt (59).
3. Remove the two screws (57) and then remove the pulley (58).

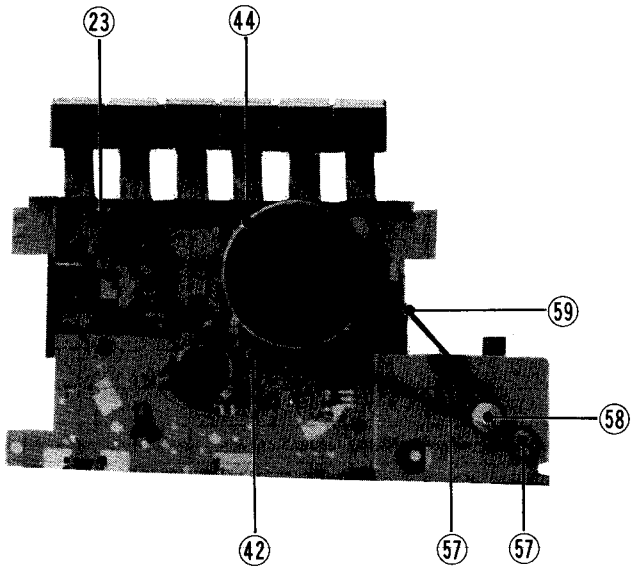


Fig. 12.

■ **Flywheel ass'y** (44)
1. Remove two washer (84).
2. Disengage the belts (59) and (42).

■ **Leaf switch** (23)
1. Push it in the direction of the REC button for removing.

How to Engage Dial Cord

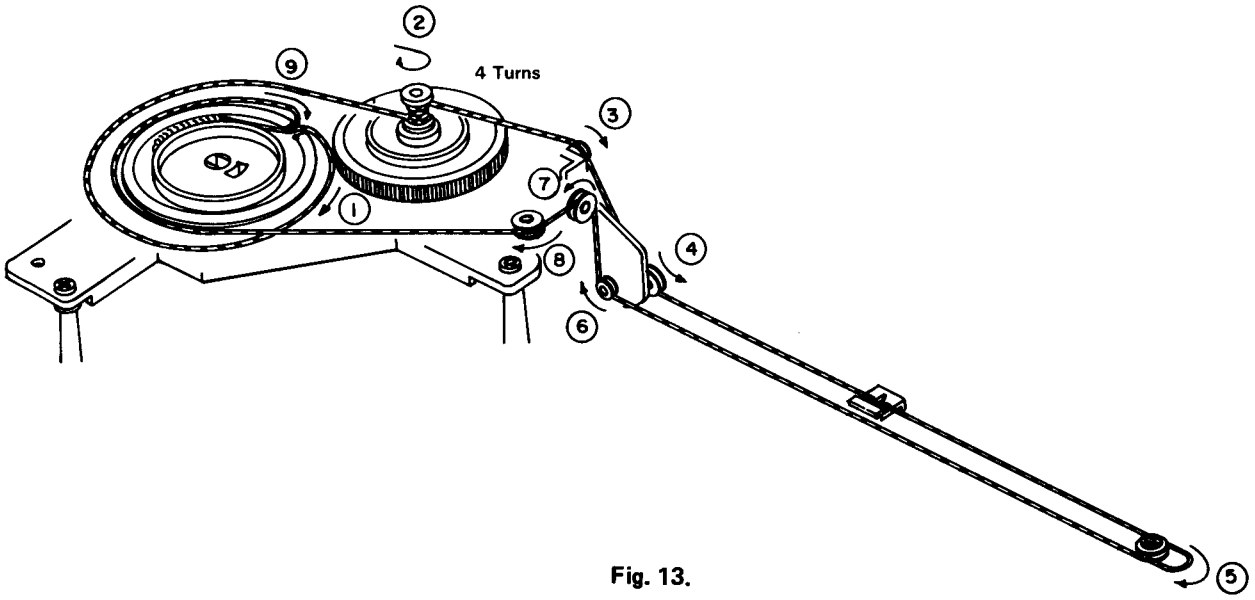


Fig. 13.

1. Turn the dial drum fully counterclockwise to the position of the stopper on the chassis (to the maximum frequency position).
2. Use cable of $\phi 0.5 \times 1200$ mm ± 2 mm (TK-1584) to employ the dial cord.

■ **Installation of pointer**

1. Turn the tuning shaft counterclockwise to its minimum frequency position.
2. Fit the pointer on the cord by setting it for the marker on the chassis.

IC and Transistor Voltage Chart

NO. \ PIN NO. / FUNCTION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC 1	FM	0.8	1.5	5.0	1.5	–	5.0	4.2	4.9	5.0	X	X	X	X	X	X	X	X	X
IC 2	FM	0.02	0.02	0.02	0.02	–	4.2	4.3	4.9	4.2	5.2	1.7	5.2	–	3.6	0.7	5.1	–	–
	AM	5.0	5.0	5.0	9.0	–	4.6	4.6	4.2	4.6	5.5	2.0	5.5	–	4.0	0.4	5.5	–	–
IC 3	FM	0.6	4.2	4.8	4.5	–	4.2	4.2	0.9	0.9									
	AM	0.6	4.1	4.8	4.2	–	4.2	4.8	0.9	0.9									
IC 4	PLAY	1.8	0.08	1.8	–	0.002	6.0	1.8	0.008	1.8	X	X							
	REC	1.8	0.03	1.8	–	0.6	6.0	1.8	0.008	1.8	X	X							
IC 5	NORMAL	8.8	4.5	–	0.6	0.01	5.1	–	0.01	0.6	8.8	4.5	9.2						

	TR1 (FM)	TR2	TR9, TR10 (REC)
E	0.1	6.2	0.002
C	4.7	9.0	0.009
B	0.8	6.9	0.8

Main Adjustments

■ Deck Section

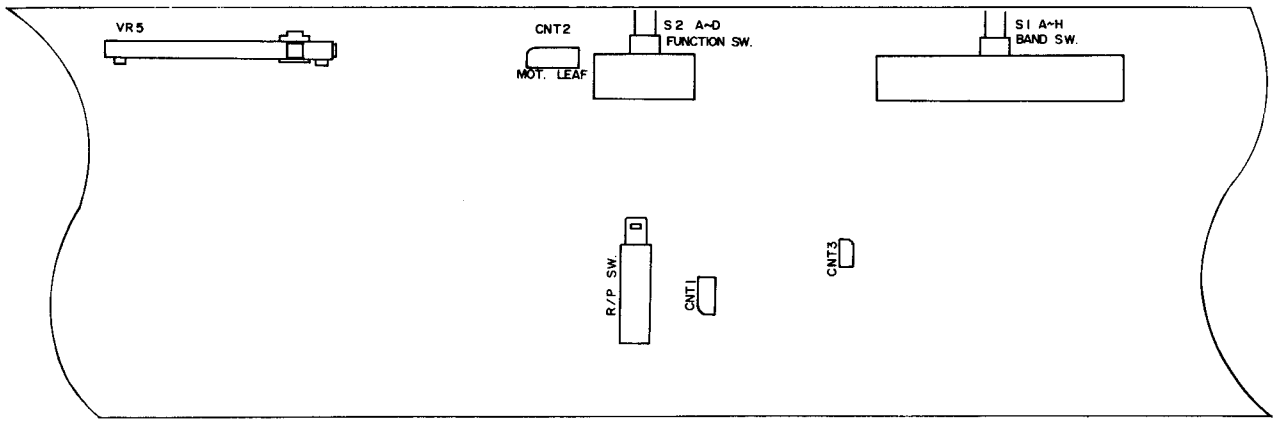


Fig. 14.

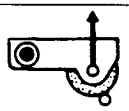
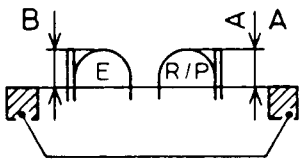
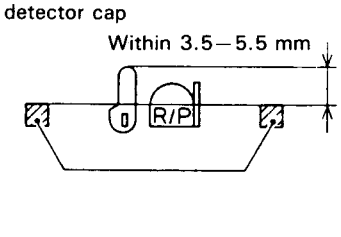
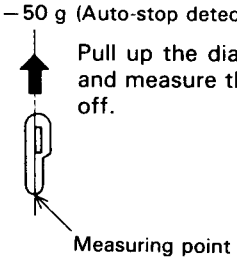
Conditions

Power supply : DC 9 V
Load : 50 mW (0.63V/8Ω)
Function switch : TAPE
Tone : Maximum position
Specified input : MIC −60 dBs

Measuring point (output): Speaker terminal

Item	Tape to be used	Procedure	Adjusting Point
Azimuth	VTT702 (8 kHz)	With the maximum output	R/P head azimuth screw
Tape speed and wow & flutter	VTT712 (3 kHz)	Adjust semi-fixed resistor inside the motor so that the counter reads 3000 Hz $^{+3}_{-2}$%. Make sure that wow & flutter is within 0.35% (JIS RMS).	Semi-fixed resistor inside the motor
Playback output power	VTT722 (1 kHz)	Maximum output should be 1200mW (3.1V/8Ω), Output should be 1000mW or more with 10% T.H.D. (2.8V/8Ω).	—
Playback frequency characteristics	VTT736 (125 Hz / 1 kHz / 8 kHz)	The playback output level should satisfy the following characteristics with respect to 1 kHz. 125 Hz Within −3±3 dB 8 kHz Within +4.5±3 dB	—
R/P frequency characteristics	Normal tape	Apply −20 dB signal with respect to the specified input; the following values should be satisfied when the 1 kHz signal is reference. 125 Hz −4 dB±4 dB 6.3 kHz +1.5 dB±4 dB	—
Erasability	Normal tape	Erase the prerecorded tape, the then check to see if the previous recording has been erased completely.	—

■ Mechanism Section

Checking Item	Standard Value		Adjusting Equipment & Procedures	Tape to be Used
1. Power voltage	Rated voltage: DC 9 V $^{+2.5}_{-3}$ V		Constant-voltage regulator	–
2. Tape running speed	4.75cm/sec (3,000 Hz) Tolerance: 2,940–3,090 Hz		Frequency counter (Digital counter)	VTT712
3. Wow & flutter	Less than 0.35% (JIS RMS)		Wow & flutter meter	VTT712
4. Tape winding torque	PLAY	30 – 50 g/cm	Torque gauge (CTG-N) For Play mode, confirm that the idler and take-up pulley do not do slipping movement when the reel is locked.	–
	F.F.	More 55 g/cm		
	REW	More 55 g/cm		
5. Current consumption (motor only)	PLAY	More than 100 mA at no load	DC ammeter	C-60 (Normal in winding torque)
	F.F. REW	Less than 120 mA at tape end		
6. Pinch roller pressure	More than 100 g (Tape DM-300)		Pull the pinch roller by a tension gauge in the direction of the arrow (see right) and read the gauge at the stop of the pinch roller's rotation.	
7. Thrust gap of flywheel	Within 0.05–0.5 mm		Clearange gauge	–
8. Head position in PLAY & REC modes	 B: 2.6–3.3 mm A: 2.8–3.5 mm		Adjust the Erase and R/P heads so that they are positioned respectively in the range shown on the left in Play and REC modes. Make sure there is no contact between the heads and cassette.	All kinds of cassette tapes
9. Auto-stop operation (Moving distance and detecting pressure of Auto-stop detector cap)			 Pull up the dial tension gauge vertically and measure the pressure when it shuts off.	All kinds of cassette tapes
10. Fast Winding time	F.F. : Within 170 sec			C-60
	REW : Within 170 sec			

■ Tuner Section

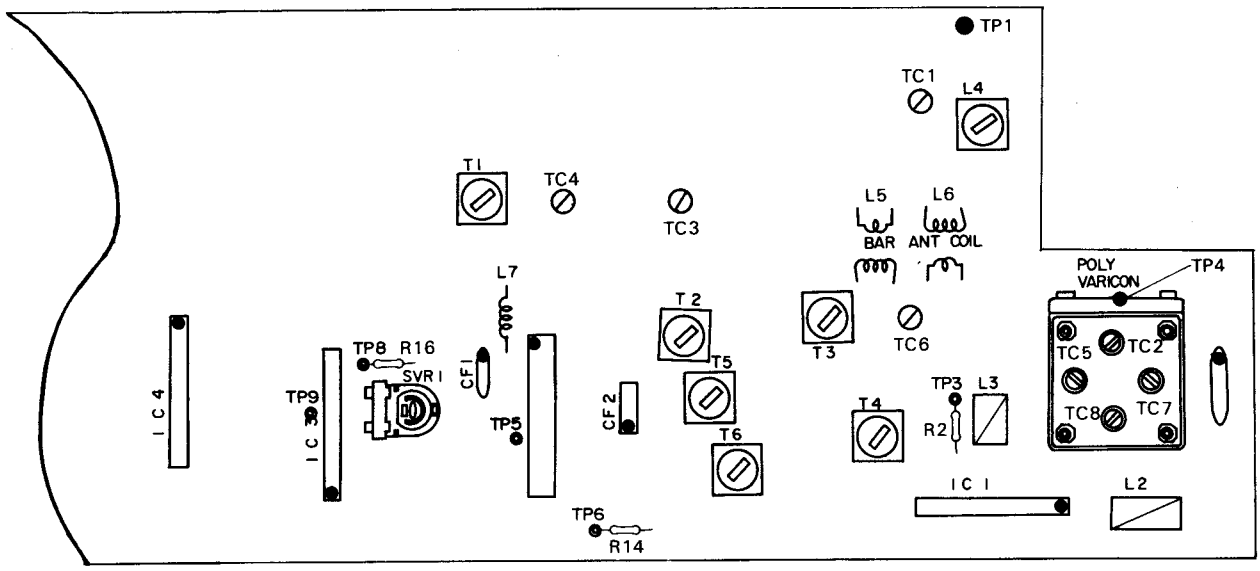
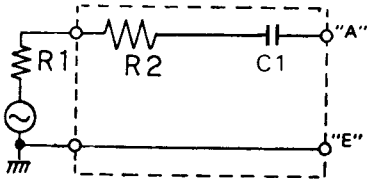


Fig. 15.

Dummy antenna



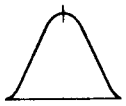
C1 : 10P TP-1: "A"
R1+R2=75 Ω TP-4: "E"

R1 : Output impedance of S.S.G.

Fig. 16.

Basic conditions:

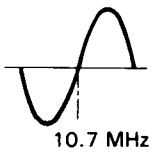
POWER SOURCE OF THE RECEIVER:	DC9 V AC 220 V-240 V/110 V-120 V (RC-15 E/G/V) AC 110-127/220-240 V (RC-15 U/UZ)
LOAD RESISTANCE OF THE RECEIVER:	50 mW (0.63 V/8 Ω)
MODULATION OF SSG:	400 Hz, 30% : MW, LW, SW (RC-15 E/G/V) 400 Hz, 30% : AM, SW1, SW2 (RC-15 U/UZ) 400 Hz, 22.5 kHz : FM

Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver	
(1) Power source:	DC 9 V (When the power is supplied directly to the tuner in the receiver the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	AM
(4) Volume control:	Minimum gain position
(5) Tone control:	Center position
(6) Variable capacitor:	Near the minimum capacity position where no signal comes in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP2
(2) Tuner output:	Negative side to TP4 Positive side to TP6 (R14)
1-3 Aligning position:	
1-4 Alignment (Waveform): 	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical waveform can be obtained. In this case, the wavehead should be appeared at the center marker (455 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) Tone control:	Center position
(6) Variable capacitor:	Near the minimum capacity position where no signal comes in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP3
(2) Tuner output:	Negative side to TP4 Positive side to TP6 (R14)

Note: a) Attach a capacitor (30 pF) and a resistor (30 kΩ) to the positive side cable which shall be led from Sweeper input.
b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper output.

2-3 Checking FM IF waveforms

The waveform should be symmetrical. Depending on the CFT used, the intermediate frequencies are as shown in the table below.



CFT color marking	Frequency (MHz)
Violet	10.67±0.03
Black	10.70±0.03

3. AM RF ALIGNMENT	
3-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Volume control:	50 mW
(4) Tone control:	Center position
(5) Variable capacitor:	Refer to the following list shown in item 3-4.
3-2 Conditions of SSG	
(1) Modulation:	Refer to the basic condition.
(2) Frequency:	Refer to the following list shown in item 3-4.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Power output measuring position:	Speaker terminals

3-4 Alignment

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	AM/MW	Loop Antenna	520 kHz	Max. capacity	T3/T2
2			1,650 kHz	Min. capacity	TC6/TC5
3			Adjust the above alignming position (T3 & TC6) repeatedly so that the tuner can be received above frequency range (bandwidth).		
4			620 kHz	to be received 620 kHz	L6/L5
5			1,400 kHz	to be received 1,400 kHz	TC3/TC2
6			Adjust the above aligning position (T3 & TC6/T2 & TC5) repeatedly so that the tuner can be received above frequency range (bandwidth).		
7	SW1 (U/UZ Version)	Loop Antenna	2.2 MHz	Max. capacity	T2
8			7.3 MHz	Min. capacity	TC5
9			Adjust the above aligning position (L6 & TC3/L5 & TC2) repeatedly so that the tuner can be obtained the best sensitivity.		
10			2.3 MHz	to be received 2.3 MHz	L5
11			7.0 MHz	to be received 7.0 MHz	TC2
12			Adjust the above aligning position (L5 & TC2) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW2 (U/UZ Version)	Dummy Antenna	6.8 MHz	Max. capacity	T1
14			23.0 MHz	Min. capacity	TC4
15			Adjust the above aligning position (T1 & TC4) repeatedly so that the tuner can be received above frequency range (bandwidth).		
16			7.0 MHz	to be received 7.0 MHz	L4
17			22.0 MHz	to be received 22.0 MHz	TC1
18			Adjust the above aligning position (T1 & TC4) repeatedly so that the tuner can be obtained the best sensitivity.		
19	LW (E/G/V Version)	Loop Antenna	145 kHz	Max. capacity	T3
20			360 kHz	Min. capacity	Tc-6
21			Adjust the above alignming position (T3 & TC-6) repeatedly so that the tuner can be received above frequency range (bandwidth).		
22			145 kHz	to be received 145 kHz	L6
23			360 kHz	to be received 360kHz	TC-3
24			Adjust the above aligning position (L6 & TC-3) repeatedly so that the tuner can be obtained the best sensitivity.		
25	SW (E/G/V Version)	Dummy Antenna	5.8 MHz	Max. capacity	T1
26			18.6 MHz	Min. capacity	TC-4
27			Adjust the above aligning position (T1 & TC-4) repeatedly so that the tuner can be received above frequency range (bandwidth).		
28			6 MHz	to be received 6.0 MHz	L4
29			18 MHz	to be received 18.0 MHz	TC-1
30			Adjust the above aligning position (L4 & TC-1) repeatedly so that the tuner can be obtained the best sensitivity.		

4. FM RF ALIGNMENT

4-1 Conditions of the receiver

(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) FM MODE switch:	STEREO
(4) Volume control:	Approx. 50 mW
(5) TONE control:	MAX position
(6) Variable capacitor:	Refer to the following list shown in item 4-3.

4-2 Condition of FM SSG

(1) Modulation:	400 Hz 30% (22.5 kHz DEVI.)
(2) Frequency:	Refer to the following list shown in item 4-3.
(3) Output level of the attenuator in FM SSG:	The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.

4-3 Alignment:

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	FM	Dummy Antenna	87.5 MHz	Max. capacity	L3
2			109.0 MHz	Min. capacity	TC8
3			Adjust the above aligning position (L3 & TC-8) repeatedly so that the tuner can be received above frequency range (bandwidth).		
4			90.0 MHz	to be received 90.0 MHz	L2
5			106.0 MHz	to be received 106.0 MHz	TC-7
6			Adjust the above aligning position (L2 & TC-7) repeatedly so that the tuner can be obtained the best sensitivity.		

5. FM MPX ALIGNMENT

76 kHz Alignment (Regular Method)

1. Connect a frequency counter through 100 kΩ load to the test point TP8 (earth = TP4).
2. Adjust the semi-fixed resistor so that the frequency becomes 76 kHz ± 100 Hz.

Block Diagram

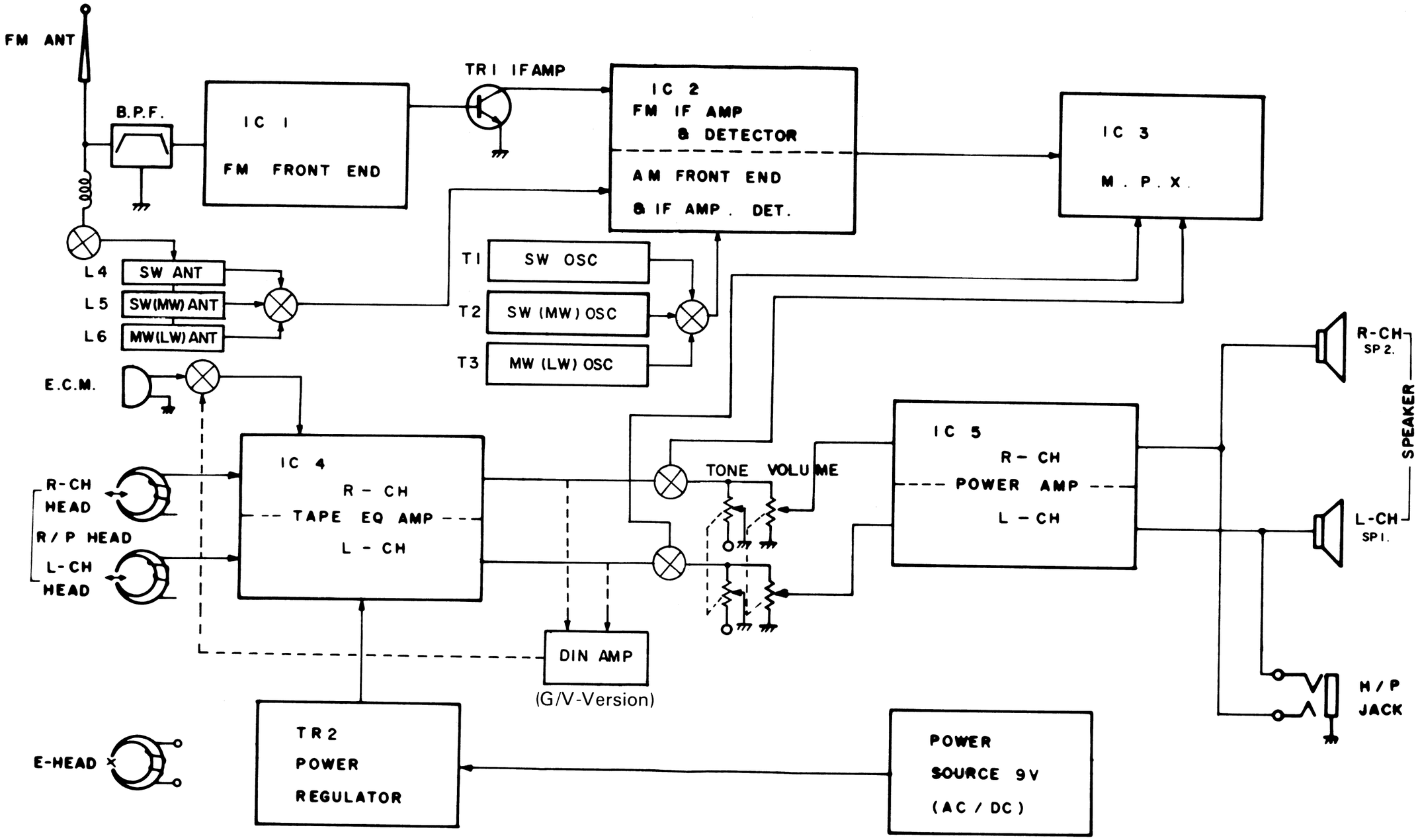


Fig. 17

Wiring Connections

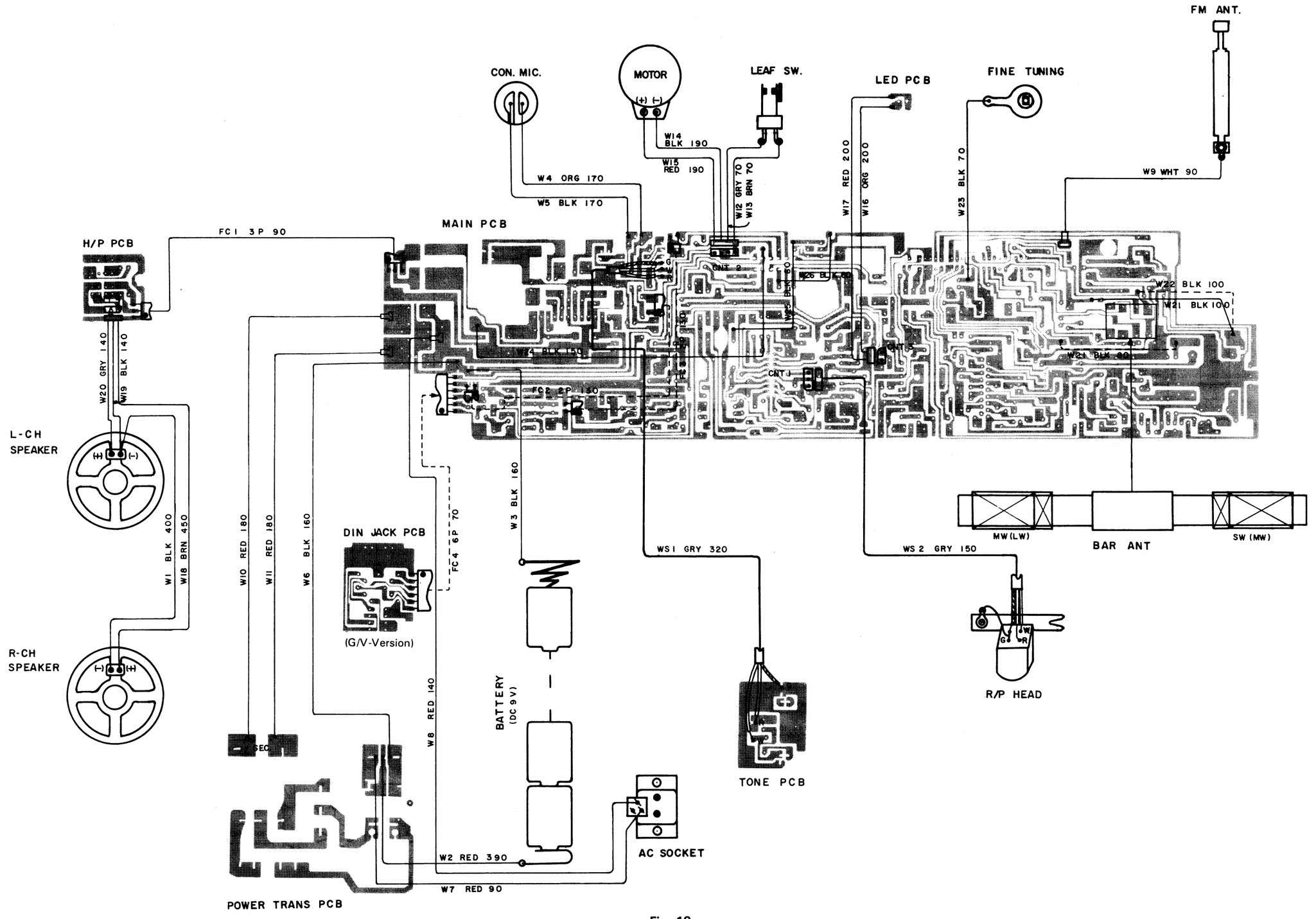
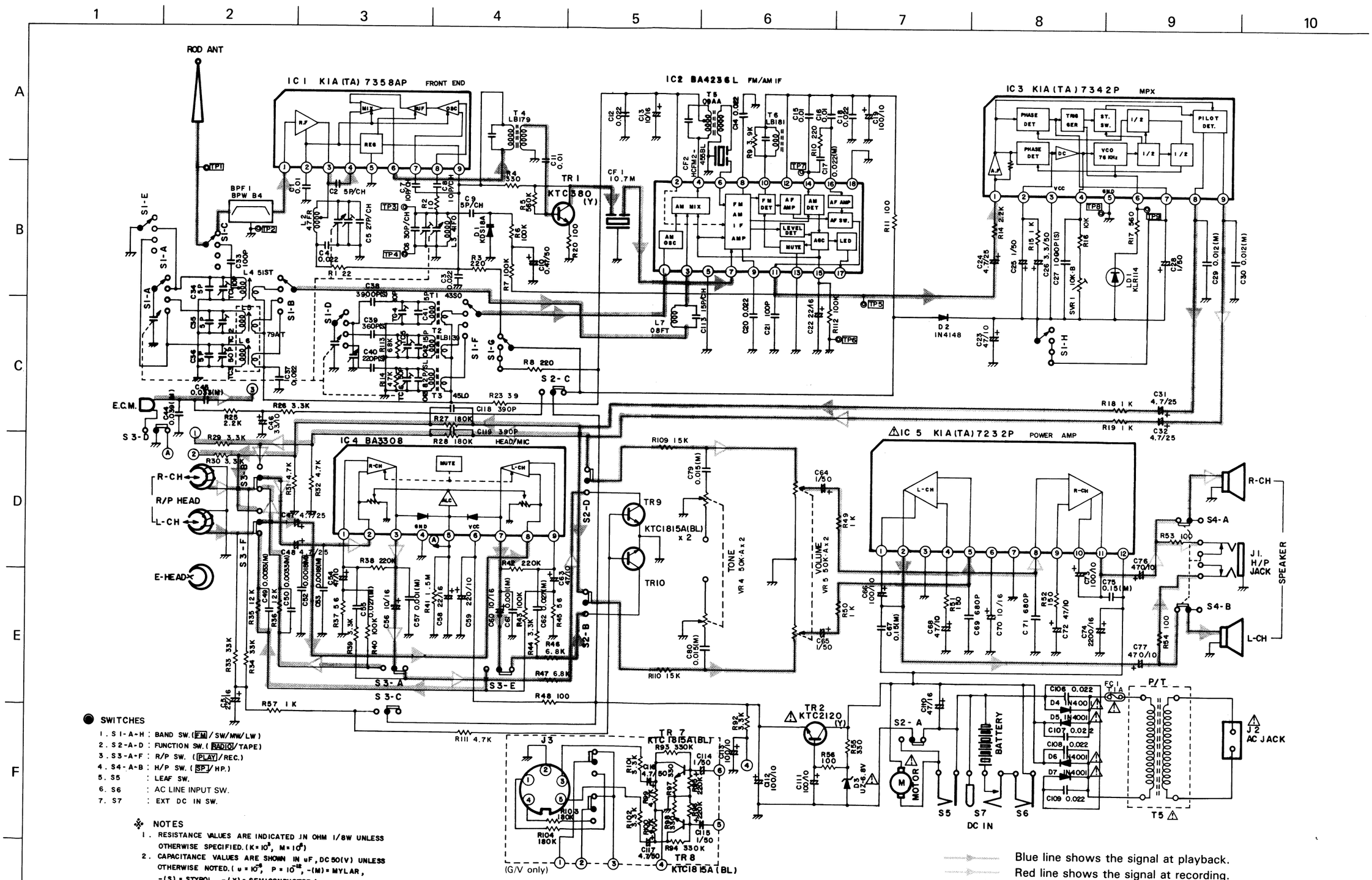


Fig. 18

Standard Schematic Diagram (RC-15E/G/V)



● SWITCHES

1. S1-A~H : BAND SW. (FM / SW/MW/LW)
2. S2-A-D : FUNCTION SW. (RADIO/TAPE)
3. S3-A-F : R/P SW. (PLAY/REC.)
4. S4-A-B : H/P SW. (SP/HP.)
5. S5 : LEAF SW.
6. S6 : AC LINE INPUT SW.
7. S7 : EXT DC IN SW.

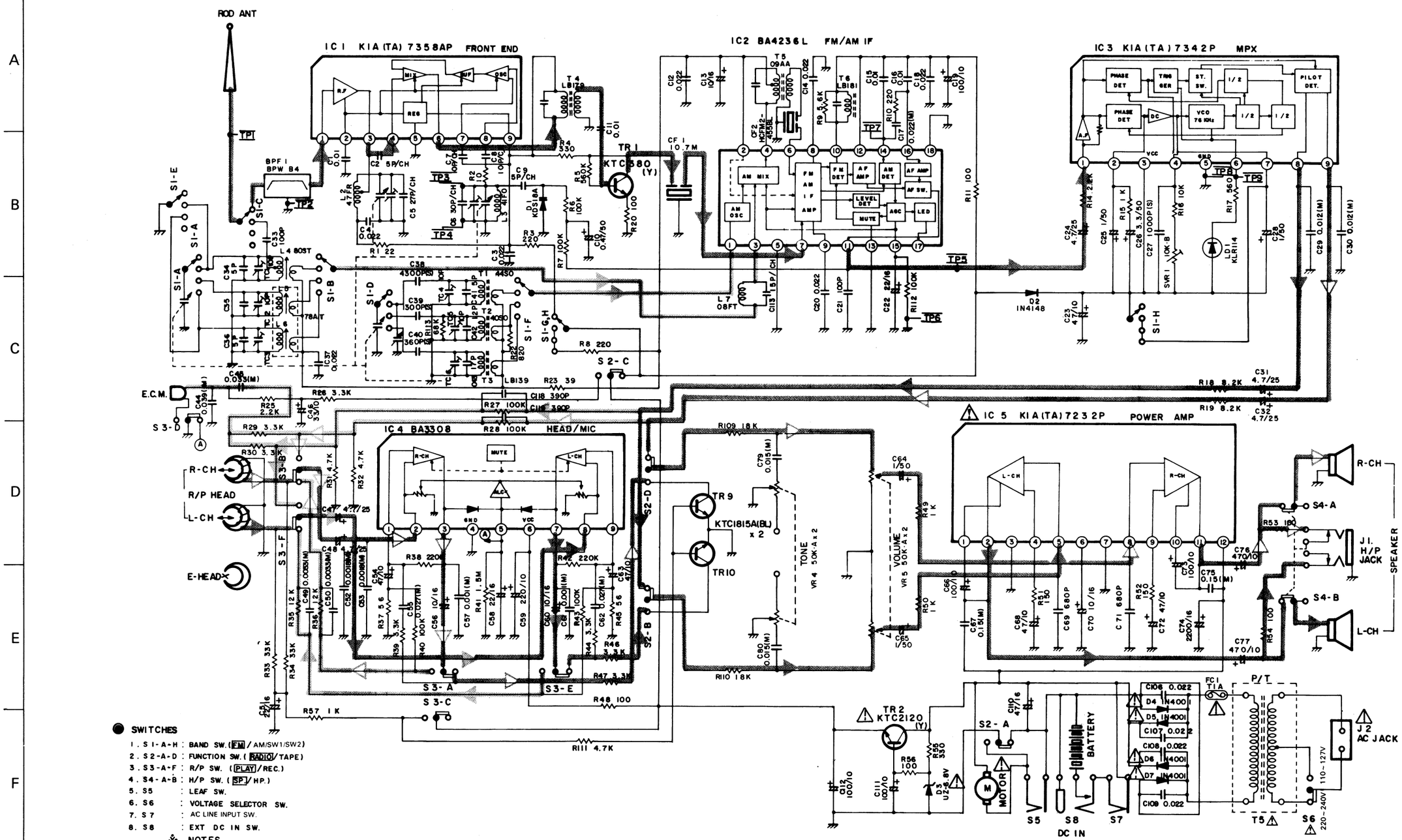
❖ NOTES

1. RESISTANCE VALUES ARE INDICATED IN OHM 1/8W UNLESS OTHERWISE SPECIFIED. (K=10^3, M=10^6)
2. CAPACITANCE VALUES ARE SHOWN IN uF, DC 50(V) UNLESS OTHERWISE NOTED. (u=10^{-6}, P=10^{-12}, -(M)=MYLAR, -(S)=STYROL, -(X)=SEMICONDUCTOR)
3. ELECTROLYTIC CAPACITORS ARE INDICATED AS FOLLOWS : CAPACITANCE (uF) / WORKING VOLTAGE(V.)
4. THIS SCHEMATIC DIAGRAM'S COMPONENT VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT.

Blue line shows the signal at playback.
Red line shows the signal at recording.
⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 19

Standard Schematic Diagram (RC-15 U/UZ)



SWITCHES

1. S1-A-H : BAND SW. (FM / AM/SW1/SW2)
2. S2-A-D : FUNCTION SW. (RADIO/TAPE)
3. S3-A-F : R/P SW. (PLAY/REC.)
4. S4-A-B : H/P SW. (SP/HP.)
5. S5 : LEAF SW.
6. S6 : VOLTAGE SELECTOR SW.
7. S7 : AC LINE INPUT SW.
8. S8 : EXT DC IN SW.

NOTES

1. RESISTANCE VALUES ARE INDICATED IN OHM 1/8W UNLESS OTHERWISE SPECIFIED. (K= 10^3, M= 10^6)
2. CAPACITANCE VALUES ARE SHOWN IN uF, DC 50(V) UNLESS OTHERWISE NOTED. (u = 10^{-6}, P = 10^{-12}, -(M) = MYLAR, -(S) = STYROL, -(X) = SEMICONDUCTOR)
3. ELECTROLYTIC CAPACITORS ARE INDICATED AS FOLLOWS : CAPACITANCE (uF) / WORKING VOLTAGE(V.)
4. THIS SCHEMATIC DIAGRAM'S COMPONENT VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT.

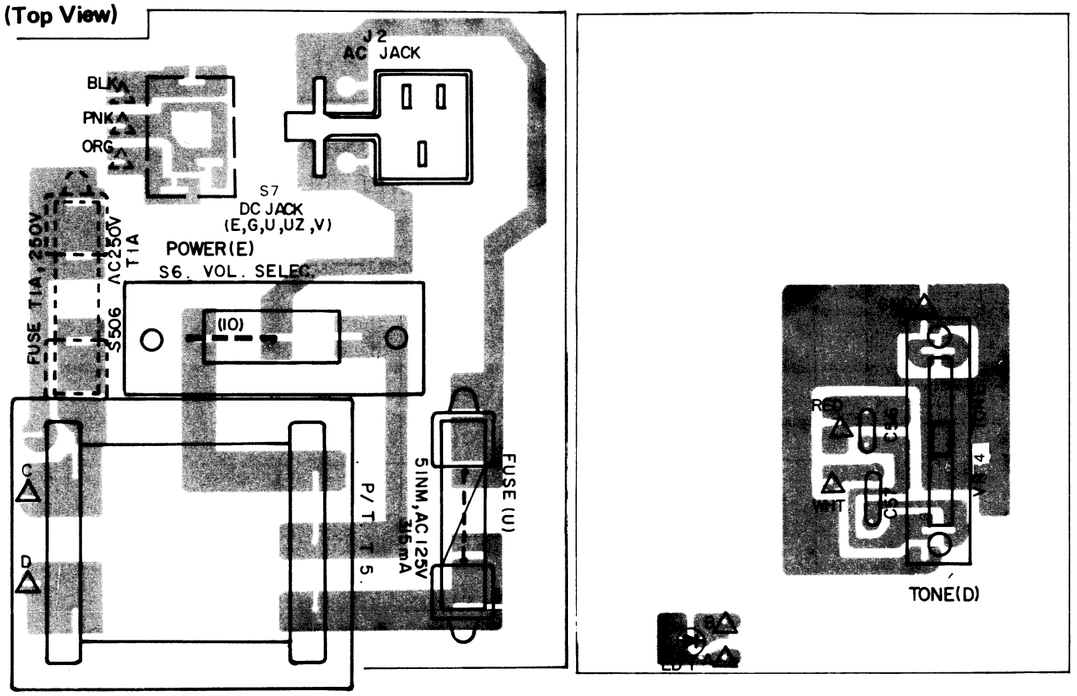
Fig. 20

Blue line shows the signal at playback.
Red line shows the signal at recording.
⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Location of P.C. Board Parts (RC-15 E/G/V)

Power/Tone/Indicator P.C. Board of RC-15 E/G/V

(Top View)



(Bottom View)

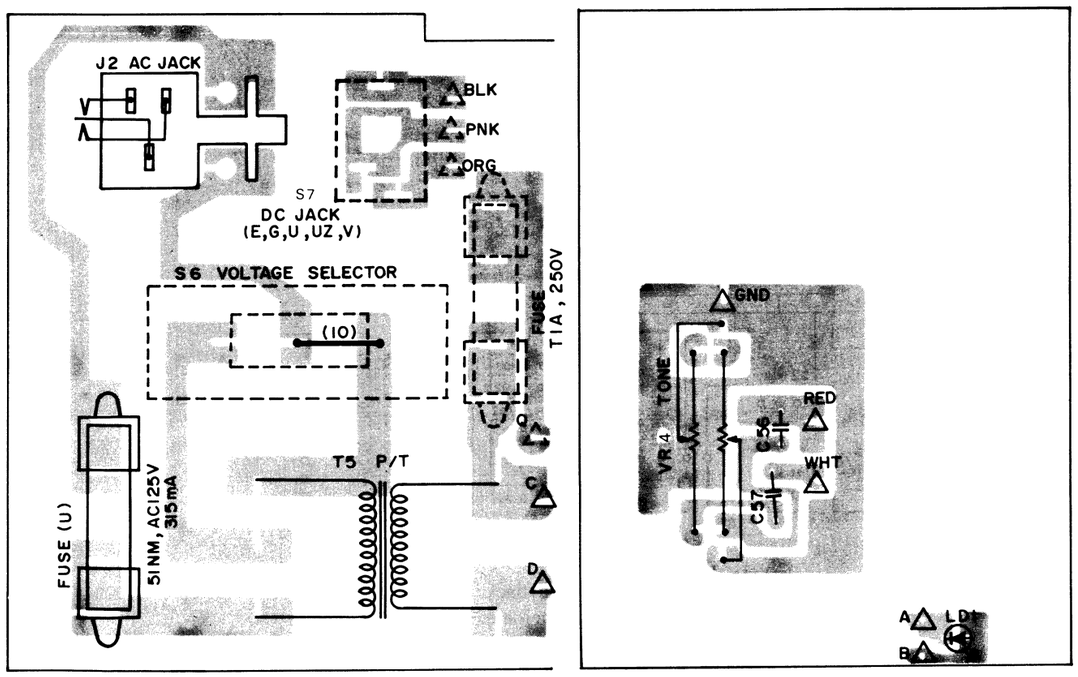
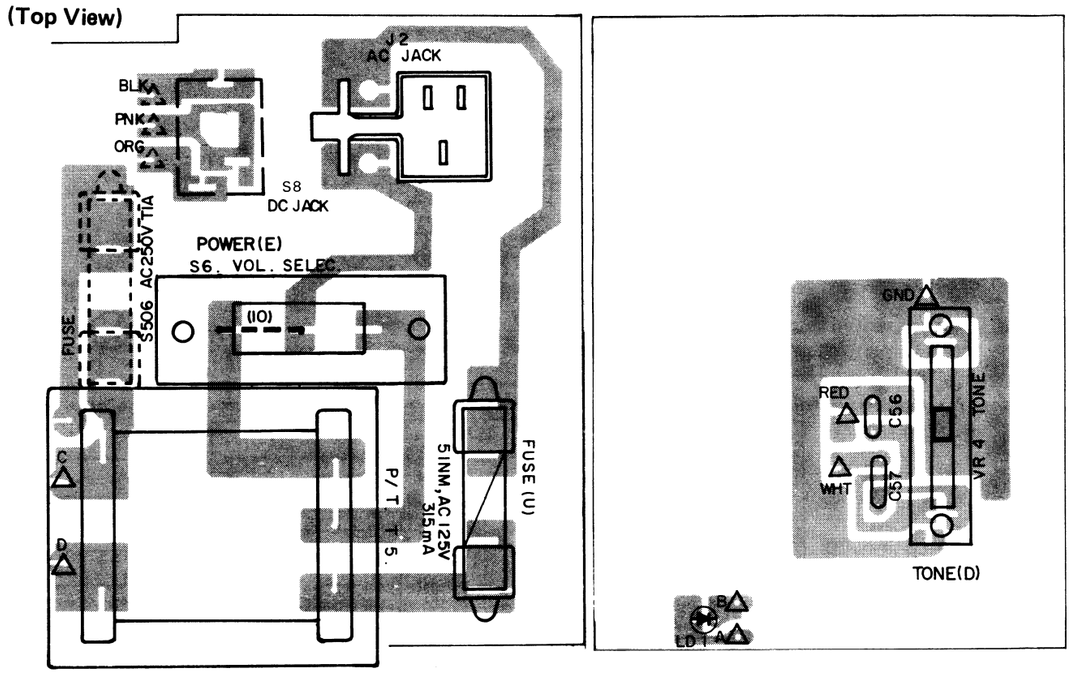


Fig. 21

Power/Tone/Indicator P.C. Board of RC-15 U/UZ

(Top View)



(Bottom View)

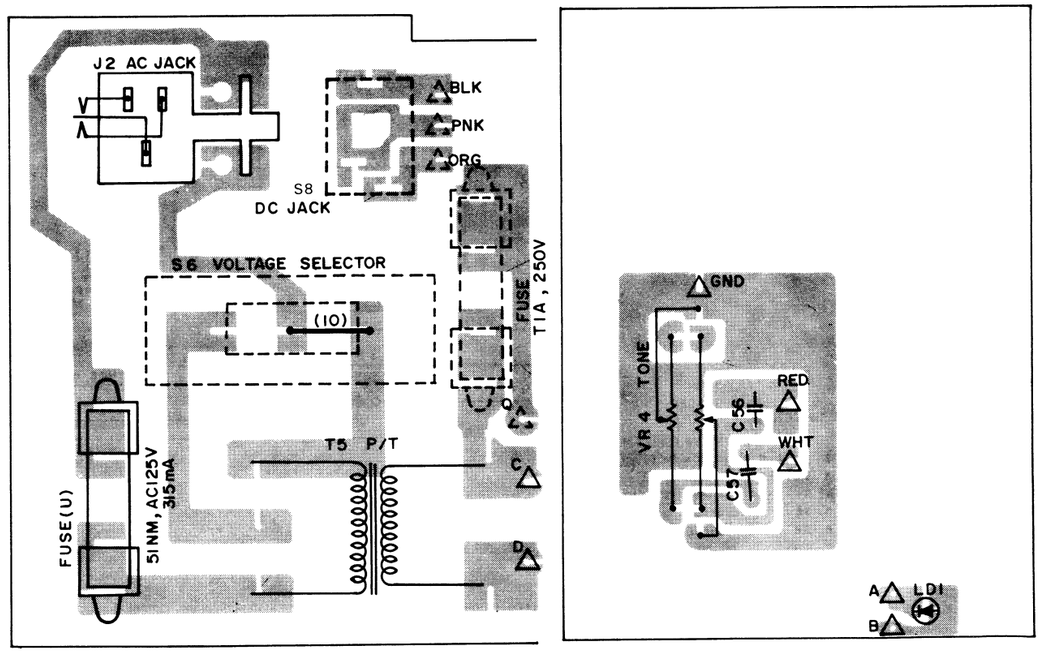


Fig. 22

Main Board of RC-15 E/G/V

(Top View)

Positive Pole

(G Version only)

(G Version only)

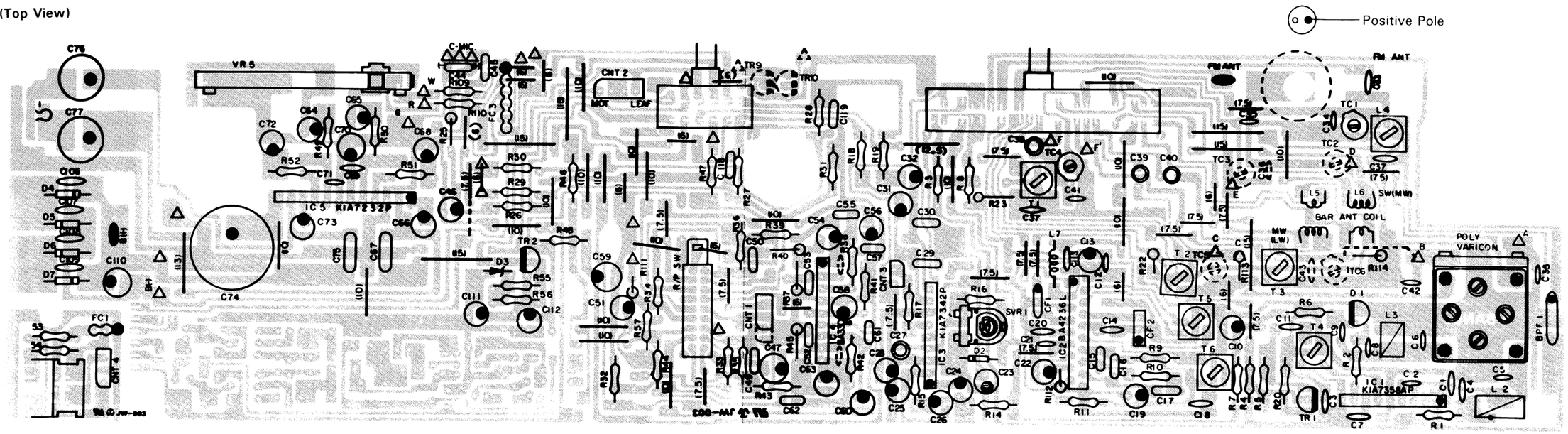
(Bottom View)

(G Version only)

Fig. 23

Main Board of RC-15 U/UZ

(Top View)



(Bottom View)

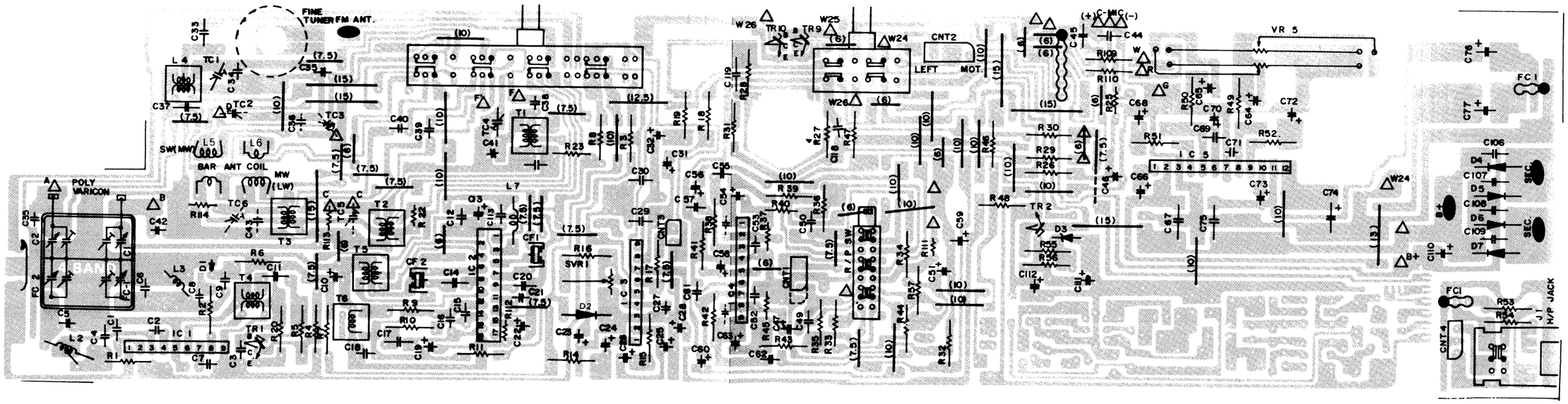


Fig. 24

Main P.C. Board Parts List (RC15 E/G)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC1	TA7358AP	IC	Front End	1
	IC2	BA4236L	〃	FM/AM IF	1
	IC3	TA7342P	〃	MPX	1
	IC4	BA3308	〃	R/P EQ.	1
⚠	IC5	TA7232P	〃	POWER	1
	TR1	2SC380(Y)	Transistor		1
⚠	TR2	2SC2120(Y)	〃		1
	TR9,10	2SC1815A(BL)	〃		2
	D1	KDS18A	Diode	AFC	1
	D2	1N4148	〃	SWITCHING	1
⚠	D3	UZ6.8V	〃	Zener	1
⚠	D4~7	1N4001	〃	Rectifier	4
	VC1~4	RF2220T9 (AI7200-1)	Poly Varicon		1
	VC5	FT-1-7-4	Fine Tuner		1
	BPF1	PFWB4	Band Pass Filter		1
	CF1	SK107M2-AE-00	FM IF Filter		1
	CF2	HCFM2-455BL	AM IF Filter		1
	T1	43SO	SW OCS Coil		1
	T2	LB139	MW OSC Coil		1
	T3	45LO	LW OSC Coil		1
	T4	LB179	FM OSC Coil		1
	T5	09AA	MW Ist I.F.T.		1
	T6	LB181	FM DET I.F.T		1
	L2	47FR	FM RF Coil		1
	L3	41F0	FM OSC Coil		1
	L4	51ST	SW ANT		1
	L5~6	79AT	MW/LW ANT		1
	L7	08FT	IF Filter Coil		1
	TC1,4	CVN610	Capacitor	Ceramic Trimmer 5 ϕ	2
	TC3,6	CVN650	〃	〃 5 ϕ	2
	VR5	S302GG50K	Volume		1
	SVR1	RVM083H-110K,B	Semi-fixed Resistor		1
	S1	SK84D01-M9	Switch	BAND	1
	S2	SK42F01-M9	〃	Function	1
	S3	CL206J	〃	R/P	1
	J1	HSJ-1064-01-440	Jack	Headphone	1
		JS-80C	Condenser Mic.		1
	SP1,2	F35CO1M-3	Speaker		2
		3B250B-2	Telescopic Antenna		1
	TR7,8	2SC1815A	Transistor	} G-Version Only	2
	J3	TSC720-01-0401	DIN Jack		1
	C10,79,80	QET41HR-474	E. Capacitor	0.47 μF 50 V	3
	C25,28,64,65	〃 -105	〃	1 μF 50 V	4
	C26	〃 -335	〃	33 μF 50 V	1
	C24,31,32,47,48	QET41ER-475	〃	4.7 μF 25 V	5
	C13,60,70	QET41CR-106	〃	10 μF 16 V	3
	C22,51,58	QET41CR-226	〃	22 μF 16 V	3
	C110	QET41CR-476	〃	47 μF 16 V	1
	C23,54,63,68,72 101,102	QET41AR-476	〃	47 μF 10 V	7
	C19,66,73,111 112	QET41AR-107	〃	100 μF 10 V	5
	C59	QET41AR-227	〃	220 μF 10 V	1
	C76,77	QET41AR-477	〃	470 μF 10 V	2
	C74	QET41CR-228	〃	2200 μF 16 V	1
	C46	QET41AR-336	E. Capacitor	33 μF 10 V	1
	C57,61	QFN41HJ-103	M. Capacitor	0.001 μF	2
	C52,53	〃 -182	〃	0.0018 μF	2
	C95	〃 -152	〃	0.0015 μF	1
	C49,50	〃 -332	〃	0.0033 μF	2

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C15,16	QFN41HJ-103	M. Capacitor	0.01 μF	2
	C29,30	〃 -123	〃	0.013 μF	2
	C55,62,17	〃 -223	〃	0.022 μF	3
	C45	〃 -333	〃	0.033 μF	1
	C44	〃 -393	〃	0.039 μF	1
	C67,75	〃 -154	〃	0.15 μF	2
	C40	QCS41HJ-221	Styrol Capacitor	220 pF	1
	C27	〃 -102	〃	1000 pF	1
	C39	〃 -361	〃	360 pF	1
	C38	〃 -392	〃	3900 pF	1
	C2,9,34,35,36,41	QCT05CH-5R0	Ceramic Capacitor	5 pF	6
	C7,8	〃 -100	〃	10 pF	2
	C5	〃 -270	〃	27 pF	1
	C6	〃 -300	〃	30 pF	1
	C43	QCS11HJ-820	〃	82 pF	1
	C113,42	QCT05CH-150	〃	15 pF	1
	C21,33,118,119	QCY41HK-101	〃	100 pF	4
	C69,71	〃 -681	〃	680 pF	2
	C1,11	〃 -103	〃	0.01 μF	2
	C3,4,12,16,20,37	〃 -223	〃	0.022 μF	6
	C118,119	〃 -391	〃	390 pF	2
	G-Version only				
	C113	QET41AR-107	E. Capacitor	100 μF 10 V	1
	C114,115	QET41ER-105	〃	1 μF 50 V	2
	C116,117	〃 -475	〃	4.7 μF 〃	2
	R1	QRD141J-220	C. Resistor	1/4 W 22 Ω	1
	R2	〃 -100	〃	〃 10 Ω	1
	R3,8,10	〃 -221	〃	〃 220 Ω	2
	R4,55	〃 -331	〃	〃 330 Ω	2
	R5	〃 -564	〃	〃 560 kΩ	1
	R6,7,40,43,112	〃 -104	〃	〃 100 kΩ	5
	R9	〃 -392	〃	〃 3.9 kΩ	1
	R11,20,48,53,54 56	〃 -101	〃	〃 100 Ω	6
	R14	〃 -222	〃	〃 2.2 kΩ	1
	R15,49,50,57,18 19	〃 -102	〃	〃 1 kΩ	6
	R16	〃 -103	〃	〃 10 kΩ	1
	R17	〃 -561	〃	〃 560 Ω	1
	R23	〃 -390	〃	〃 39 Ω	1
	R25	〃 -222	〃	〃 2.2 kΩ	1
	R26,29,30,39,44	〃 -332	〃	〃 3.3 kΩ	5
	R27,28	〃 -184	〃	〃 180 kΩ	4
	R31,32,111	〃 -472	〃	〃 4.7 kΩ	3
	R33,34	〃 -333	〃	〃 33 kΩ	2
	R35,36	〃 -123	〃	〃 12 kΩ	2
	R37,45	〃 -560	〃	〃 56 Ω	2
	R38,42	〃 -224	〃	〃 220 kΩ	2
	R41	〃 -155	〃	〃 1.5 MΩ	1
	R46,47	〃 -682	〃	〃 6,8 kΩ	2
	R51,52	〃 -151	〃	〃 150 Ω	2
	R76,77,78	〃 -562	〃	〃 5.6 kΩ	3
	G-Version only				
	R101,102	QRD141J-332	C. Resistor	1/4 W 3.3 kΩ	2
	R95,96	〃 -224	〃	〃 220 kΩ	2
	R97,98	QRD141J-331	C. Resistor	1/4 W 330 Ω	2
	R99,100	〃 -472	〃	〃 4.7 kΩ	2
	R103,104	〃 -184	〃	〃 180 kΩ	2
	R109,110	〃 -153	〃	〃 15 kΩ	2
	R113	〃 -683	〃	〃 68 kΩ	1
	R114	〃 -473	〃	〃 47 kΩ	1

Power P.C. Board Parts List (RC-15 E/G)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
⚠	T5	48-50P-V	Power trans.		1
⚠	J2	HSC-0651-01-130	AC jack		1
⚠	F1		Fuse	T1A/250 V	1
⚠		FC-5A	Fuse Holder		2
	S7	TC-18-028	DC Jack		1

TONE & Indicator P.C. Board Parts List (RC-15 E/G)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VR4	S102GG50K-A	Slide Volume		1
	C56	QFN41HJ-153	E. Capacitor	10 μF 16 V	1
	C57	〃 -103	M. Capacitor	0.001 μF 50 V	1
	LD1	LR114E	Diode	L.E.D.	1

Main P.C. Board Parts List (RC-15 U/UZ)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC1	TA7358AP	IC	Front End	1
	IC2	BA4236L	〃	FM/AM IF	1
	IC3	TA7342P	〃	MPX	1
	IC4	BA3308	〃	R/P EQ.	1
⚠	IC5	TA7232P	〃	POWER	1
	TR1	2SC380(Y)	Transistor		1
⚠	TR2	2SC2120(Y)	〃		1
	TR9,10	2SC1815A(BL)	〃		2
	D1	KDS18A	Diode	AFC	1
	D2	1N4148	〃	SWITCHING	1
⚠	D3	UZ6.8V	〃	Zener	1
⚠	D4~7	1N4001	〃	Rectifier	4
	LD1	LR114E	〃	L.E.D.	1
	VC1~4	RF2220T9 (AI7200-1)	Poly Varicon		1
	VC5	FT-1-7-4	Fine Tuner		1
	BPF1	PFWB4	Band Pass Filter		1
	CF1	SK107M2-AE-00	FM IF Filter		1
	CF2	HCFM2-455BL	AM IF Filter		1
	T1	44SO	SW2 OCS Coil		1
	T2	40SO	SW1 OSC Coil		1
	T3	LB139	AM OSC Coil		1
	T4	LB179	FM OSC Coil		1
	T5	09AA	MW Ist I.F.T.		1
	T6	LB181	FM DET I.F.T		1
	L2	47FR	FM RF Coil		1
	L3	41F0	FM OSC Coil		1
	L4	80ST	SW2 ANT		1
	L5~6	78AT	SW/AM ANT		1
	L7	08FT	IF Filter Coil		1
	TC1,2,4,5	CVN610	Trimmer	5φ	4
	VR5	S302GG50K	Volume		1
	SVR1	RVM083H-110K,B	Semi-fixed Resistor		1
	S1	SK84D01-M9	Switch	BAND	1
	S2	SK42F01-M9	〃	Function	1
	S3	CL206J	〃	R/P	1
	S4	HSJ-1064-01-440	Jack	Headphone	1
		JS-80C	Condenser Mic.		1
	SP1,2	R350-40-02	Speaker		2
		3B250B-2	Telescopic Antenna		1
	C10,79,80	QET41HR-474	E. Capacitor	0.47 μF 50 V	3
	C25,28,64,65	〃 -105	〃	1 μF 50 V	4
	C26	〃 -335	〃	33 μF 50 V	1
	C24,31,32,47,48	QET41ER-475	〃	4.7 μF 25 V	5
	C13,60,70	QET41CR-106	〃	10 μF 16 V	3
	C22,51,58	QET41CR-226	〃	22 μF 16 V	3
	C110	QET41CR-476	〃	47 μF 16 V	1
	C23,54,63,68,72 101,102	QET41AR-476	〃	47 μF 10 V	7
	C19,66,73,111 112	QET41AR-107	〃	100 μF 10 V	5
	C59	QET41AR-227	〃	220 μF 10 V	1
	C76,77	QET41AR-477	〃	470 μF 10 V	2
	C74	QET41CR-228	〃	2200 μF 16 V	1
	C46	QET41AR-336	E. Capacitor	33 μF 10 V	1
	C57,61	QFN41HJ-103	M. Capacitor	0.001 μF	2
	C52,53	〃 -182	〃	0.0018 μF	2
	C95	〃 -152	〃	0.0015 μF	1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C49,50	QFN41HJ-332	M. Capacitor	0.0033 μF	2
	C15,16	〃 -103	〃	0.01 μF	2
	C29,30	〃 -123	〃	0.013 μF	2
	C55,62,17	〃 -223	〃	0.022 μF	3
	C45	〃 -333	〃	0.033 μF	1
	C44	〃 -393	〃	0.039 μF	1
	C67,75	〃 -154	〃	0.15 μF	2
	C40	QCS41HJ-221	Styrol Capacitor	220 pF	1
	C27	〃 -102	〃	1000 pF	1
	C39	〃 -361	〃	360 pF	1
	C38	〃 -392	〃	3900 pF	1
	C2,9,34,36,41	QCT05CH-5R0	Ceramic Capacitor	5 pF	5
	C35	〃 -3R0	〃	3 pF	1
	C7,8	〃 -100	〃	10 pF	2
	C5	〃 -270	〃	27 pF	1
	C6	〃 -300	〃	30 pF	1
	C43	QCS11HJ-82D	〃	82 pF	1
	C42	QCT05CH-120	〃	12 pF	1
	C113	〃 -150	〃	15 pF	1
	C21,33,118,119	QCY41HK-101	〃	100 pF	4
	C69,71	〃 -681	〃	680 pF	2
	C1,11	〃 103	〃	0.01 μF	2
	C3,4,12,16,20,37	〃 -223	〃	0.022 μF	6
	C118,119	〃 -391	〃	390 pF	2
	R1	QRD141J-220	C. Resistor	1/4 W 22 Ω	1
	R2	〃 -100	〃	〃 10 Ω	1
	R3,8,10	〃 -221	〃	〃 220 Ω	2
	R4,55	〃 -331	〃	〃 330 Ω	2
	R6,7,27,28,40,43 112	〃 -104	〃	〃 100 kΩ	5
	R9	〃 -562	〃	〃 5.6 kΩ	1
	R11,20,48,53,54 56	〃 -101	〃	〃 100 Ω	6
	R14	〃 -222	〃	〃 2.2 kΩ	1
	R15,49,50,57	〃 -102	〃	〃 1 kΩ	4
	R16	〃 -103	〃	〃 10 kΩ	1
	R17	〃 -561	〃	〃 560 Ω	1
	R18,19	〃 -822	〃	〃 8.2 kΩ	2
	R22	〃 -821	〃	〃 820 Ω	1
	R23	〃 -390	〃	〃 39 Ω	1
	R25	〃 -222	〃	〃 2.2 kΩ	
	R26,29,30,39,44 46,47	〃 -332	〃	〃 3.3 kΩ	7
	R31,32,111	〃 -472	〃	〃 4.7 kΩ	3
	R33,34	〃 -333	〃	〃 33 kΩ	2
	R35,36	〃 -123	〃	〃 12 kΩ	2
	R37,45	〃 -560	〃	〃 56 Ω	2
	R38,42	〃 -224	〃	〃 220 kΩ	2
	R41	〃 -155	〃	〃 1.5 MΩ	1
	R51,52	〃 -151	〃	〃 150 Ω	2
	R76,77,78	〃 -562	〃	〃 5.6 kΩ	3

Power P.C. Board Parts List (RC-15 U/UZ)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
⚠	T5	48-50CQ-A	Power trans.		1
⚠	J2	HSC-0651-01-130	AC jack		1
⚠	F1	PRI.51NM315mA/250V	Fuse	Pri., QMF51U2-R315	1
⚠	F2	SEC.TL T1A/250V	Fuse	Sec., QMF51E2-1R0SBS	1
		FC-5A	Fuse Holder		4
⚠	S6	TSS012 TK	Voltage Selector		1
	S8	TC-18-028	DC Jack		1

TONE & Indicator P.C. Board Parts List (RC-15 U/UZ)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VR4	S102GG50K-A	Slide Volume		1
	C56	QFN41HJ-153	E. Capacitor	10 μF 16 V	1
	C57	QFN41HJ-103	M. Capacitor	0.001 μF 50 V	1
	LD1	LR114E	Diode	L.E.D.	1

Exploded View of Enclosure Assembly

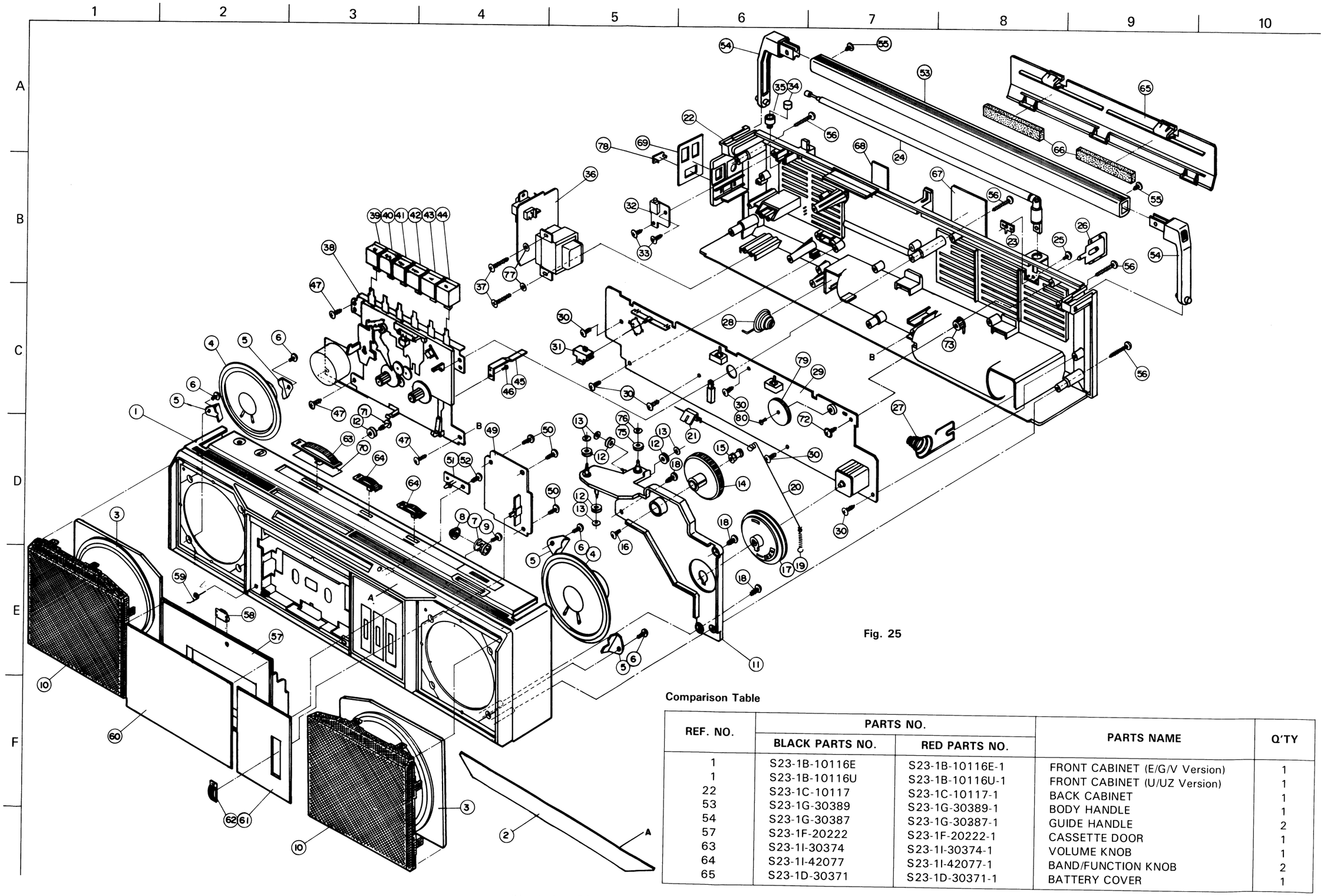


Fig. 25

Comparison Table

REF. NO.	PARTS NO.		PARTS NAME	Q'TY
	BLACK PARTS NO.	RED PARTS NO.		
1	S23-1B-10116E	S23-1B-10116E-1	FRONT CABINET (E/G/V Version)	1
1	S23-1B-10116U	S23-1B-10116U-1	FRONT CABINET (U/UZ Version)	1
22	S23-1C-10117	S23-1C-10117-1	BACK CABINET	1
53	S23-1G-30389	S23-1G-30389-1	BODY HANDLE	1
54	S23-1G-30387	S23-1G-30387-1	GUIDE HANDLE	2
57	S23-1F-20222	S23-1F-20222-1	CASSETTE DOOR	1
63	S23-1I-30374	S23-1I-30374-1	VOLUME KNOB	1
64	S23-1I-42077	S23-1I-42077-1	BAND/FUNCTION KNOB	2
65	S23-1D-30371	S23-1D-30371-1	BATTERY COVER	1

Enclosure Assembly Parts List

(Black Type)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS	Q'TY
1	S23-1B-10116E	FRONT CABINET	for E/G/V Version	1
1	S23-1B-10116U	〃	for U/UZ Version	1
2	S23-2D-30377E	DIAL SCALE	for E/G/V Version	1
2	S23-2D-30377U	〃	for U/UZ Version	1
3	S23-1D-30372	S.P. DECORATION "L"	HOT STAMPING	1
3	S23-1D-30373	S.P. DECORATION "R"	HOT STAMPING	1
4	F35C01M-3	SPEAKER		2
5	S23-2B-42083	SPEAKER HOLDER	ZMC-3	4
6	4BB0830Y	TAPPING SCREW T1s BID $\phi3\times10$	MsZn	7
7	S23-1M-4200800	CAP DAMPER		1
8	S23-1M-42081	GEAR DAMPER		1
9	4CB032Y	TAPPING SCREW T1s BID $\phi3\times12$	MsZn	1
10	S23-2C-30375	SPEAKER GRILL "L"	BLACK COATING	1
10	S23-2C-30376	SPEAKER GRILL "R"	BLACK COATING	1
11	S23-1K-20223	MAIN CHASSIS	ABS	1
12	RT7-1M-41800	DIAL PULLEY (10ϕ)		5
13	5B030805	FIBER WASHER FIBER $\phi2.6\times\phi8\times0.5t$		7
14	S23-1I-30386	TUNING KNOB	Cr PLATED	1
15	S23-2E-42086	TUNING SHAFT		1
16	4AB0308Y	MACHINE SCREW BID M3×8	MsZn	1
17	S23-2M-30388	DIAL DRUM		1
18	4CB312Y	TAPPING SCREW T1s BID $\phi3\times12$	MsZn	3
19	S23-2F-42089	DIAL SPRING		1
20	TK-1584	DIAL CORD		1
21	S23-1J-42076	DIAL POINTER	ORANGE COLOR	1
22	S23-1C-10117	BACK CABINET	BLACK	1
23	S23-2K-42084	ANTENNA TERMINAL		1
24	3B250B-2	ANTENNA		1
25	4AB0308B	MACHINE SCREW PHD M3×6	BLACK	1
26	8800-40915	BATTERY TERMINAL		1
27	S23-2F-42087	BATTERY SPRING "A"		1
28	S23-2F-42088	BATTERY SPRING "B"		1
29	——	MAIN P.C. BOARD ASS'Y		1
30	4BB0310Y	TAPPING SCREW T1s BID $\phi3\times10$	MsZn	6
31	S23-1K-42079	GUIDE VOLUME KNOB		1
32	——	HEADPHONE JACK P.C. BOARD ASS'Y		1
33	4BB0310Y	TAPPING SCREW T1s BID $\phi3\times10$	MsZn	2
34	JS-80	CONDENSER MIC		1
35	W34-2I-42061	CON. MIC BUSHING		1
36	——	POWER P.C. BOARD ASS'Y		1
37	4CB0315Y	TAPPING SCREW T1s BID $\phi3\times16$	MsZn	2
38	——	DECK MECHANISM		1
39	S23-1I-30383	KEY KNOB "PAUSE"	Cr PLATED	1
40	S23-1I-30384	KEY KNOB "ST/EJECT"	Cr PLATED	1
41	S23-1I-30382	KEY KNOB "F.F"	Cr PLATED	1
42	S23-1I-30381	KEY KNOB "REW."	Cr PLATED	1
43	S23-1I-30380	KEY KNOB "PLAY"	Cr PLATED	1
44	S23-1I-30385	KEY KNOB "REC"	Cr PLATED	1
45	S23-2B-42082	REC. SPRING		1
46	4AB0203Y	MACHINE SCREW BID M2×3	MsZn	1
47	4CB0312Y	TAPPING SCREW T1s BID $\phi3\times12$	MsZn	3
48	S23-2J-42096	MOTOR CUSHION		1
49	——	TONE P.C. BOARD ASS'Y		1
50	4CB0312Y	TAPPING SCREW T1s BID $\phi3\times12$	MsZn	3
51	——	LED P.C. BOARD ASS'Y		1
52	4BB0310Y	TAPPING SCREW T1s BID $\phi3\times10$	MsZn	1
53	S23-1G-30389	BODY HANDLE		1
54	S23-1G-30387	GUIDE HANDLE	Cr PLATED	1
55	4BF0310B	TAPPING SCREW T1s FHT $\phi3\times10$	BLACK	2
56	4CB0325Y	TAPPING SCREW T1s BID $\phi3\times25$	MsZn	4
57	S23-1F-20222	CASSETTE DOOR		1
58	S23-2B-42085	TAPE SPRING		1
59	S23-2F-42094	DOOR SPRING		1
60	S23-2D-42090	DOOR WINDOW	SILK PRINT	1
61	S23-2D-42091	TONE WINDOW	SILK PRINT	1
62	S23-1I-42078	TONE KNOB		1
63	S23-1I-30374	VOLUME KNOB		1
64	S23-1I-42077	BAND/FUNCTION KNOB		2
65	S23-1D-30371	BATTERY COVER		1
66	S23-2J-42095	BATTERY CUSHION		2
67	S23-2D-42093E	SPEC PLATE	for E Version	1
67	S23-2D-42093G	SPEC PLATE	for G Version	1
67	S23-2D-42093U	SPEC PLATE	for U Version	1
67	S23-2D-42093UZ	SPEC PLATE	for UZ Version	1
67	S23-2D-42093V	SPEC PLATE	for V Version	1
68	S23-2D-42139	DIN JACK PLATE	for E/U Version	1
68	S23-2D-42139G	DIN JACK PLATE	for G Version	1
68	S23-2D-42139V	DIN JACK PLATE	for V Version	1
69	S23-2D-30403	POWER JACK PLATE	for E/G/V Version	1
69	S23-2D-30402	POWER JACK PLATE	for U/UZ Version	1
70	S23-2D42131	V/R KNOB SPACER		1
71	4CB0311Y	PIVOT SCREW BID $\phi3\times11$	MsZn	1
72	4BB0310Y	TAPPING SCREW T1s BID $\phi3\times10$	W/WASHER MsZn	1
73	T70-2K-42032	CAP TERMINAL		1
74	——	——		–
75	S21-1M-41801	DIAL PULLEY (5ϕ)		1
76	5B030505	FIBER WASHER	FIER $\phi2.6\times\phi5\times0.5t$	1
77	5A031008	PLANE WASHER	SPCC $\phi3.2\times\phi10\times0.8t$	5
78	S23-1G-42132	VOLTAGE SELECTOR SWITCH COVER		1
79	S23-1I-42168	FINE TUNING KNOB		1
80	4AB0206Y	MACHINE SCREW BID M2×6	MsZn	1

Ass'y Parts

1,2,3,10,61	ZCRC15E-FBK	FRONT CABINET ASS'Y	for Black (E Version)	1
1,2,3,10,61	ZCRC15G-FBK	FRONT CABINET ASS'Y	for Black (G Version)	1
1,2,3,10,61	ZCRC15U-FBK	FRONT CABINET ASS'Y	for Black (U Version)	1
1,2,3,10,61	ZCRC15UZ-FBK	FRONT CABINET ASS'Y	for Black (UZ Version)	1
1,2,3,10,61	ZCRC15V-FBK	FRONT CABINET ASS'Y	for Black (V Version)	1
1,2,3,10,61	ZCRC15E-FRD	FRONT CABINET ASS'Y	for Red (E Version)	1
1,2,3,10,61	ZCRC15G-FRD	FRONT CABINET ASS'Y	for Red (G Version)	1
1,2,3,10,61	ZCRC15U-FRD	FRONT CABINET ASS'Y	for Red (U Version)	1
1,2,3,10,61	ZCRC15UZ-FRD	FRONT CABINET ASS'Y	for Red (UZ Version)	1
1,2,3,10,61	ZCRC15V-FRD	FRONT CABINET ASS'Y	for Red (V Version)	1
57,58,60	ZCRC15E-CBK	CASSETTE DOOR ASS'Y	for Black (E Version)	1
57,58,60	ZCRC15G-CBK	CASSETTE DOOR ASS'Y	for Black (G Version)	1
57,58,60	ZCRC15U-CBK	CASSETTE DOOR ASS'Y	for Black (U Version)	1
57,58,60	ZCRC15UZ-CBK	CASSETTE DOOR ASS'Y	for Black (UZ Version)	1
57,58,60	ZCRC15V-CBK	CASSETTE DOOR ASS'Y	for Black (V Version)	1
57,58,60	ZCRC15E-CRD	CASSETTE DOOR ASS'Y	for Red (E Version)	1
57,58,60	ZCRC15G-CRD	CASSETTE DOOR ASS'Y	for Rec (G Version)	1
57,58,60	ZCRC15U-CRD	CASSETTE DOOR ASS'Y	for Red (U Version)	1
57,58,60	ZCRC15UZ-CRD	CASSETTE DOOR ASS'Y	for Red (UZ Version)	1
57,58,60	ZCRC15V-CRD	CASSETTE DOOR ASS'Y	for Red (V Version)	1

Exploded View of Mechanism Assembly

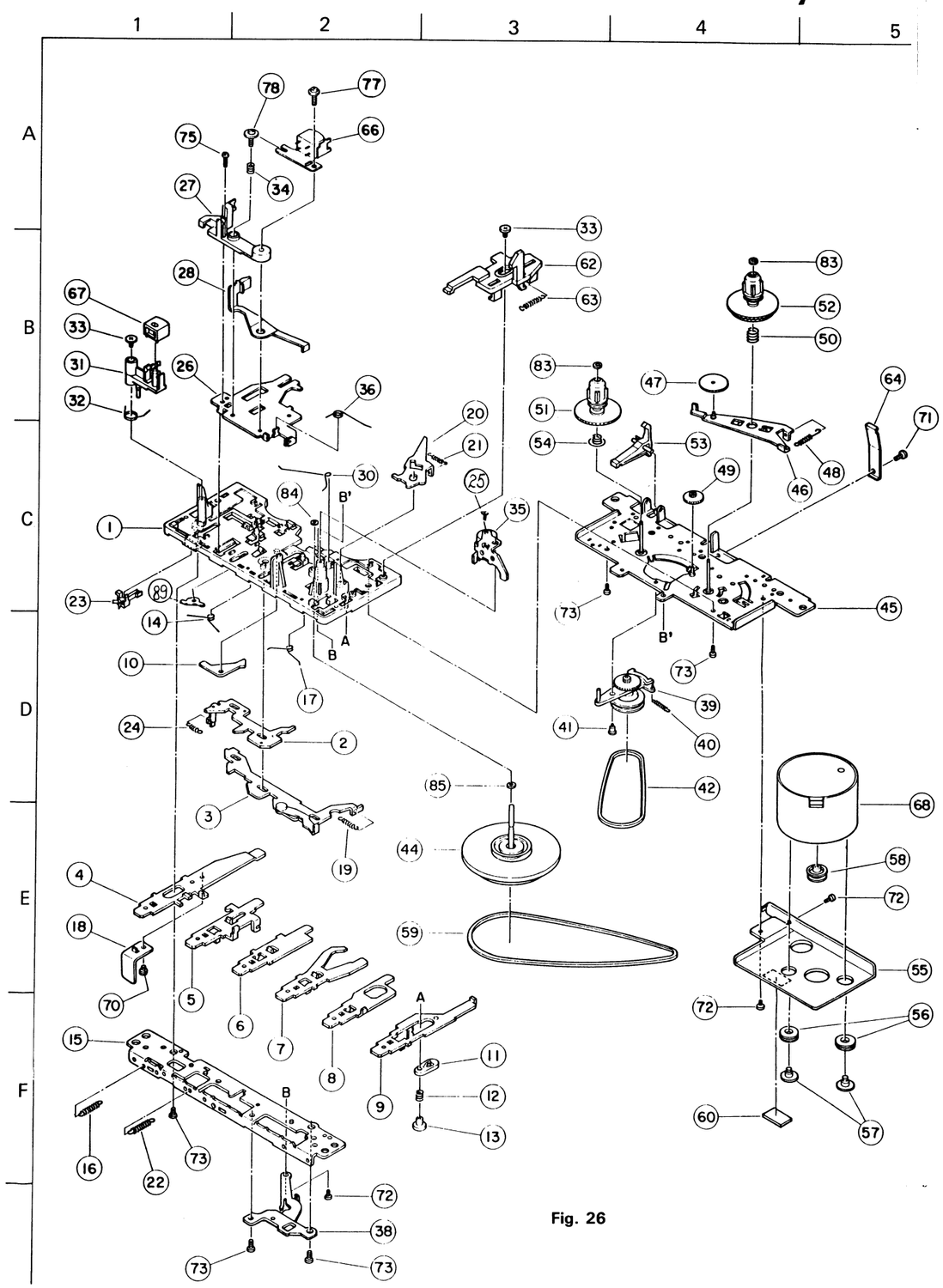


Fig. 26

Mechanism Assembly Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

NO.	PART NO.	DESCRIPTION	Q'TY
1	1821 01 60	MAIN BASE ASS'Y	1
2	1821 01 05	SWITCH PLATE	1
3	1821 01 507	PUSH BUTTON ACTUATOR ASS'Y	1
4	1821 01 47A	REC BUTTON LEVER	1
5	1821 01 42	PLAY BUTTON LEVER	1
6	1821 01 44	RWD BUTTON LEVER	1
7	1821 01 43	FF BUTTON LEVER	1
8	1821 01 45	STOP BUTTON LEVER	1
9	1821 01 504	PAUSE BUTTON LEVER ASS'Y	1
10	1821 01 68	RWD LEVER	1
11	1821 01 15	PAUSE LEVER	1
12	1821 01 16	PAUSE LEVER SPRING	1
13	1821 01 34	PAUSE STOPPER	1
14	1821 01 49	BUTTON LEVER SPRING (E)	1
15	1821 01 19	SUB CHASSIS	1
16	1821 01 07	BUTTON LEVER SPRING (A)	1
17	1821 01 23	BUTTON LEVER SPRING (C)	1
18	1510 02 02	REC SPRING PLATE	1
19	1821 01 22	ACTUATOR SPRING	1
20	1821 01 62	AUTO LEVER	1
21	1821 01 21	AUTO LEVER SPRING	1
22	1821 01 50	PLAY BUTTON LEVER SPRING (S)	1
23	LSA-1115R	LEAF SWITCH	1
24	1821 01 38	SWITCH ACTUATOR SPRING	1
25	1821 39 12	MS SCREW	1
26	1821 03 10	HEAD PANEL	1
27	1821 03 02	HEAD BASE	1
28	1821 03 301	SENSING PLATE ASS'Y	1
29			
30	1821 03 12	HEAD PANEL SPRING (S)	1
31	1821 03 05	MG ARM	1
32	1821 03 17	MG ARM SPRING	1
33	1821 13 05	P.M.E. SCREW	2
34	1821 03 07	AZIMUTH SPRING	1
35	1821 04 302	PINCH ROLLER ARM ASS'Y	1
36	1821 04 12	PINCH ROLLER SPRING	1
37			
38	1821 39 19	METAL GUIDE	1
39	1821 07 309	RF PULLEY ARM ASS'Y	1
40	1821 07 04	RF PULLEY ARM SPRING	1
41	1821 07 21	RF ARM COLLAR SCREW	1
42	1821 07 05	RF BELT	1
43			
44	1821 09 301	FLY WHEEL ASS'Y	1
45	1821 10 515	REEL BASE ASS'Y	1
46	1821 10 512	TAKE UP GEAR PLATE ASS'Y	1
47	1821 10 34	TAKE UP ROLLER GEAR	1
48	1821 10 08	T.G. PLATE SPRING	1
49	1821 10 35	FF GEAR	1
50	1821 10 46	BACK TENSION SPRING	1
51	1821 10 309	SUPPLY REEL ASS'Y	1
52	1821 10 319	TAKE UP REEL ASS'Y	1
53	1821 10 69	RECORD SAFETY LEVER	1
54	1829 10 10	BACK TENSION SPRING	1
55	1821 12 01	MOTOR BRACKET	1
56	1820 13 06	MOTOR RUBBER	2
57	1821 12 02	COLLAR SCREW	2
58	1829 12 03	MOTOR PULLEY	1
59	1821 12 04	MAIN BELT	1
60	1821 12 26	ANTI VIBRATION FELT MAT	1
61			
62	1821 13 06	EJECT SLIDE LEVER	1
63	1821 13 02	EJECT SLIDE LEVER SPRING	1
64	1821 10 28	PACK SPRING	1
65			
66	281-30-112	R.P. HEAD	1
67	PH-K380-MS1-6A	E. HEAD	1
68	EG-500AD-9F	MOTOR ⚠	1
69			
70	9076 00 00	TAMS SCREW M2x3	1
71	9179 00 00	C TAPPING SCREW M2x3	1
72	9180 00 00	C TAPPING SCREW M2x4	3
73	9679 00 00	P TAPPING BIND SCREW M2x5	5
74			
75	9004 00 00	SCREW M2x6	1
76			
77	9820 00 00	⊕⊖ CAP SCREW M2x7	1
78	9922 00 00	AZIMUTH SCREW	1
79			
80			
81			
82			
83	9933 00 00	P WASHER CUT 1.2x3.8x0.4	2
84	9875 00 00	P WASHER CUT 1.55x3.8x0.5	1
85	9999 00 04	P WASHER CUT 2.05x4x0.5	1
86			
87			
88			
89	1829 01 10	P.R STOPPER	1

Packing

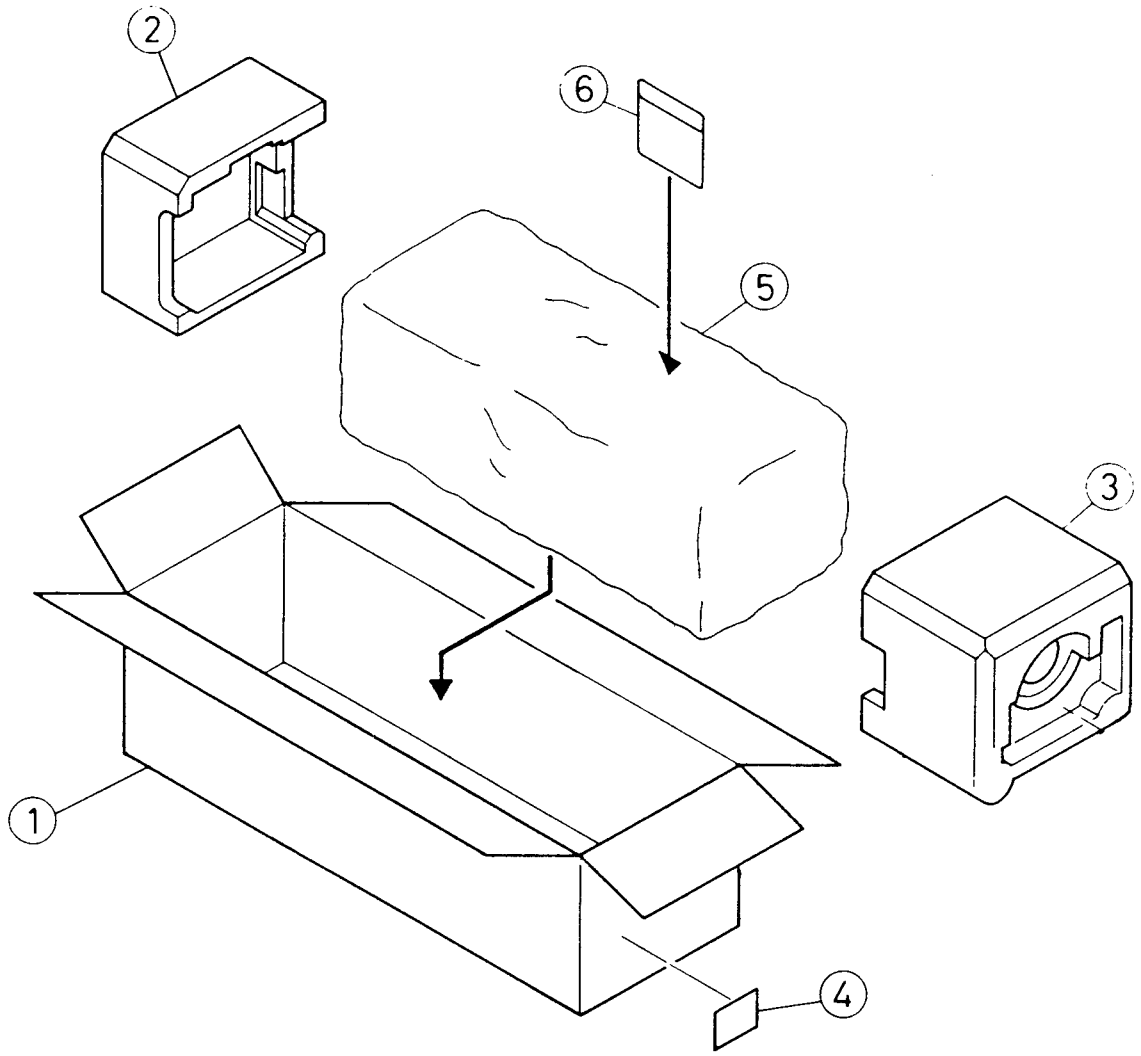


Fig. 27

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Packing Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	S23-3G-420720	Gift Box		1
	2	S23-3E-101140	Cushion	Left	1
	3	S23-3E-101150	Cushion	Right	1
	4	S23-3B-000260	Serial Ticket		1
	5	S23-3D-420740	Envelope		1
	6	S23-3C-000540	Envelope		1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Parts No.	Parts Name	Remarks	Q'ty
⚠	QMP3950-183	Power Cord	RC-15E/G/V KKP-419C KKS-15	1
⚠	QMP7350-150	Power Cord	RC-15U/UZ	1
	CNN0002-211K	Instruction Manual	RC-15E	1
	CNN0002-212K	Instruction Manual	RC-15G	1
	CNN0002-111K	Instruction Manual	RC-15U/UZ	1
	BT20065	Warranty Card	RC-15G	1
	BT20066	Guarantee	RC-15G	1
	PU36158	Caution Sheet	RC-15G	1
	V04062-001	Siemens Plug	RC-15U/UZ IR-25	1

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